

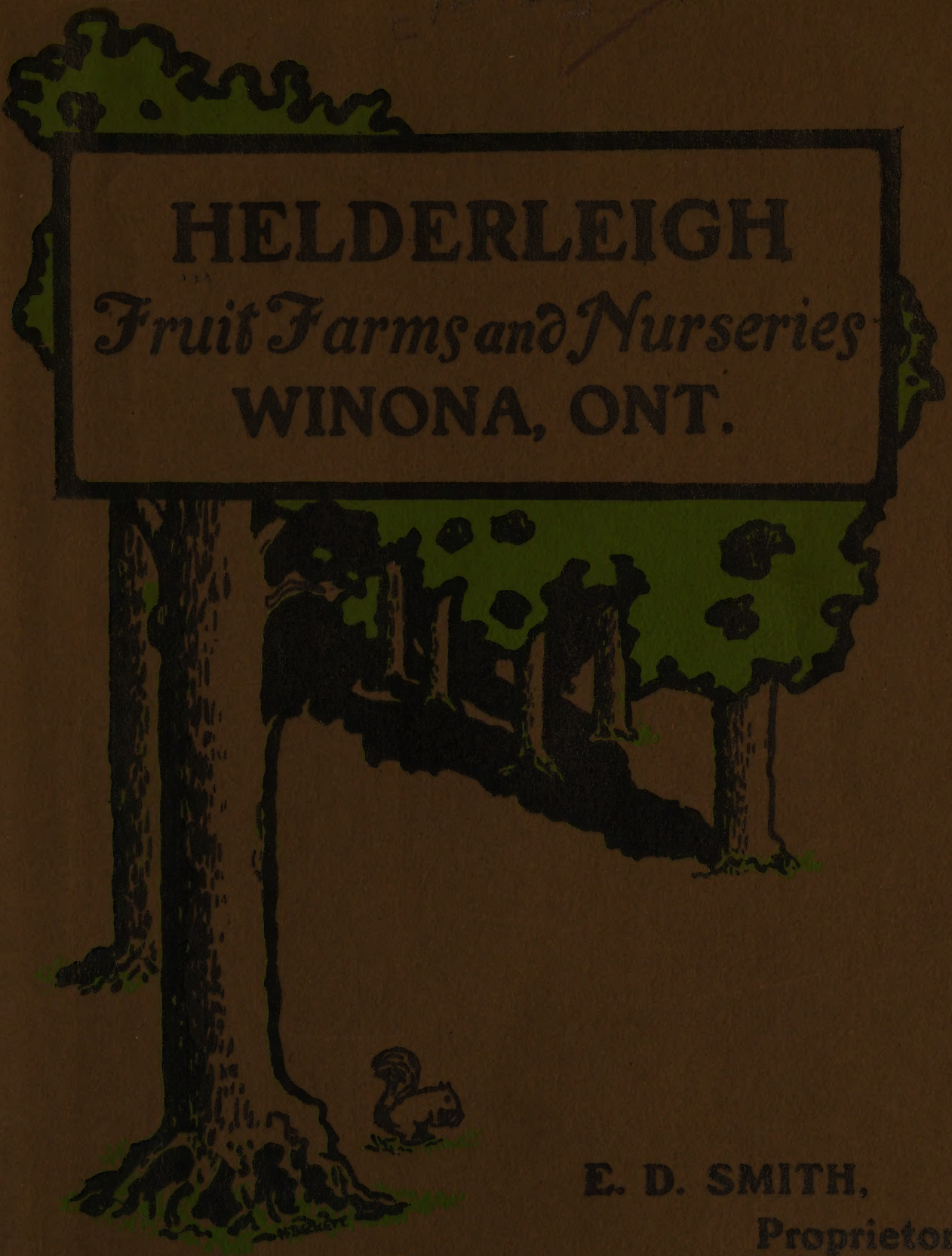
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1910

HELDERLEIGH

Fruit Farms and Nurseries
WINONA, ONT.



E. D. SMITH,
Proprietor.



✓ OLIVET CHERRY IN BLOOM. See page 26.

GENERAL CATALOGUE

OF

Fruit and Ornamental Trees

SHRUBS, ROSES, PÆONIES

HARDY BORDER PLANTS, ETC.

CULTIVATED AND FOR SALE AT THE

HELDERLEIGH NURSERIES

WINONA, ONTARIO, CANADA

E. D. SMITH, PROPRIETOR

ESTABLISHED 1882

EXTENT OF FARMS AND NURSERIES
850 ACRES

HINTS TO PLANTERS

Preparations for Planting.

PLOW and subsoil, so as to thoroughly pulverize to a depth of 12 to 18 inches. Be sure the land is well drained, as no kind of fruit trees will thrive where the soil is saturated with stagnant water, except cranberries. New land requires no fertilizing, but old land should be so fertilized as to be in a condition to grow a good crop of corn or wheat. When planting upon the lawn or grass plots, remove the sod for a diameter of 4 or 5 feet, and keep this space well worked and free from weeds. Dig the hole deeper and larger than is necessary to admit all the roots in their natural position, keeping the surface and subsoil separate. Cut off broken and bruised roots and shorten the tops to half a dozen good buds, except for Fall planting, when it is better to defer top pruning until the following Spring. If not prepared to plant when your stock arrives, "heel in," by digging a trench deep enough to admit all the roots and setting the trees therein as they can stand, carefully packing the earth about the roots, taking up when required. Never leave the roots exposed to the sun and air, and "puddle" before planting.

Planting.

Fill up the hole with surface soil, so that the tree will stand about as it did when in the nursery after the earth has settled, except Dwarf pears, which should be planted deep enough to cover the quince stock upon which they are budded, 2 or 3 inches. Work the soil thoroughly among the roots, and when well covered tramp firmly. Set the tree firm as a post, but leave the surface filling (of poorer soil) light and loose. No staking will be required, except with very tall trees. Never let manure come in contact with the roots.

Mulching.

A covering of coarse manure, straw, marsh hay, or loose chip dirt, during the first season, will effectually prevent injury from drought, and is a benefit at all times.

How to Winter Trees Procured in the Fall.

The practice of procuring supplies of trees in the Fall is becoming more and more general as each season demonstrates its wisdom. To insure success we have only to get the trees before freezing weather and bury them in the following manner: Choose a dry spot where no water will stand during the Winter, with no grass near to invite mice. Dig a trench, throwing out enough dirt to admit one layer of roots below the surface, and place the trees in it, inclined to an angle of 45 degrees or more. Widen the trench, throwing the soil among the roots in position; place another layer in the trench, reclining the tops on the others, and so on until all are in the trench; then finish by throwing up more soil until the tops of the trees are nearly or quite covered. It is also well to bank up the earth around the sides to insure more thorough protection. The exposed tops should then be covered with pine boughs, which insures them against any possibility of injury. Care should be taken to fill solid all the interstices among the roots. In the Spring the roots will be found to have formed the granulation necessary to the production of new spongioles, and when planted at the proper time will start to immediate growth.

Pruning.

I use the greatest care in digging and packing, but the loss of some small roots and fibres are unavoidable, and to preserve the natural balance between roots and tops, a proper and judicious pruning is in most cases absolutely necessary. All broken or bruised roots should be cut off with a sharp knife, as a smooth cut heals much sooner than a bruise. The tops of Fruit Trees should be cut back to the extent of one-half the growth of the previous season, taking care to prune in such manner as to secure a head properly shaped and sufficiently open to the sun and air. Evergreens and other Ornamental Trees, the beauty of which depends on preserving their natural form, should be pruned but little—hence great pains should be taken in planting and caring for them.

Plant Young Trees.

We cannot too strongly recommend to our customers the procuring of young trees, especially for orchard planting, instead of selecting the largest that can be had, to secure more immediate effect. They can be taken up with more perfect roots, and will bear sooner established in a new location. They can also be more readily trained to any desired shape. The largest and most successful planters invariably select young, thrifty trees, as the surest in the end to give thorough satisfaction. For small grounds, or street planting, when it is necessary to make a show as soon as possible, large trees are often desirable, and when handed with care should not fail to do well, but with the general planter the average of loss will be much less, and both time and money will be saved if young trees are selected to commence with.

Distances for Planting.

Standard Apples	30 to 40 feet apart each way
Standard Pears and strong growing Cherries	20 " "
Duke and Morello Cherries	16 " "
Standard Plums, Apricots, Peaches and Nectarines	16 to 18 " "
Dwarf Pears	10 to 12 " "
Grapes	rows 9 to 12 feet apart 7 to 12 feet in rows
Currants and Gooseberries	4 to 5 feet apart each way
Raspberries and Blackberries	3 to 4 by 5 to 7 feet apart
Strawberries, for field culture	1 to 1½ by 3 to 4 feet apart
Strawberries, for garden culture	1 to 2 feet apart

Number of Trees to an Acre.

30 feet apart each way	48	10 feet apart each way	435
25 " " 	70	8 " " 	680
20 " " 	110	6 " " 	1210
18 " " 	135	5 " " 	1742
15 " " 	205	4 " " 	2723
12 " " 	300	3 " " 	5840

Rule—Multiply the distance in feet between the rows by the distance the plants are apart in the rows and the product will be the number of square feet for each plant or hill; which, divided into the number of feet in an acre (43,560) will give the number of trees to an acre.

Note—A most excellent way in planting an apple orchard 30 feet apart is to plant peaches or plums in between. By the time the apples require the ground the peaches or plums will have passed their prime and can be removed.

APPLES

THE FIRST FRUIT, both in importance and general culture, is the Apple. Its period, unlike that of other fruits, extends nearly or quite through the year. By planting judicious selections of Summer, Autumn and Winter sorts, a constant succession can be easily obtained of this indispensable fruit for family use.

There is no farm crop which, on the average, will produce one-fourth as much income per acre as will a good apple orchard.

We have, in very large sections of Canada, the soil and climate to produce the best apples in the world—hard, sound, high-colored apples, that bring the highest prices in every market.

The British and other European markets are demanding increased quantities every year. If we give our orchards care and produce the best fruit we can, we have the lead in their markets.

Besides the European market, each year our own rapidly expanding population in Northwest and Northern Canada requires more of our fruit. I fully believe there is today no agricultural outlook more promising than apple orcharding. Unlike other fruits, our hard winter apples can, with any decent care, be sent almost as far as grain to distant countries. Unlike grain, however, no other country can grow such apples as we can.

Where many have failed to make apple growing profitable is in lack of proper care. Some have attempted to grow grain or hay under the trees. This is too much for the land, the moisture is extracted as well as the fertility by the crop, and the trees grow but slowly and the apples are small. Many do not spray at all, and some who do spray only half do the job. It has been clearly demonstrated that Fungus (Scab), one of the most serious troubles of the apple orchard, can be completely destroyed by thorough spraying, and the Codling Moth by bandaging the trees and killing the larvæ underneath or by spraying with poison.

In all sections where peaches or plums succeed, an excellent plan in planting an apple orchard is to set a peach or plum tree alternately, also an alternate row. These bear ten to fifteen crops before the apple trees require all the ground, and by that time have passed their prime and can be taken out.

Another excellent plan is to plant apple trees thirty-five to forty feet apart each way and plant between in the row, also a row between of some quick bearing and heavy producing sorts of apples, such as Ontario, Wealthy, Wagner, Pewaukee, Ben Davis and Gano, removing alternate trees when they begin to crowd each other, finally removing all except the trees intended to be permanent.

In this way the orchard becomes profitable in five years from planting, and if every alternate row is Northern Spy it will be valuable for a long time.

It costs no more to cultivate the ground, or at any rate only a trifle more; an apple orchard should be cultivated permanently, with very few exceptions. Cultivation extends from early May until the middle of July, then orchards should be seeded with something to be turned under the following spring.

When young, any field crop can be grown between the rows, but the ground for at least two feet beyond the spread of the limbs should always be cultivated clean and never asked to support any other crop except the apple tree.

I have been speaking largely of commercial apple growing, but aside from that, on every farm in this fair Canada, where apple trees thrive, there should be at least an acre set for an abundant family supply. We now have varieties of merit suitable for all sections where the mercury does not drop below 45 degrees below zero Fahrenheit, and some that will stand even more cold than that.

KEY TO DESCRIPTIONS OF APPLES.

As to hardiness—all the varieties described in this Catalogue as "very hardy" will endure from 25 to 35 degrees below zero Fahrenheit without injury, as far as tested, and are suitable for the more Northern sections of Ontario and the greater part of Quebec, and colder parts of New Brunswick. This, however, is subject to correction, as the matter of hardiness is by no means fully tested, and no one can definitely pronounce upon every variety. The latitude in which each variety will thrive is only approximate. Some of these classed as very hardy may endure a lower temperature than 35 degrees below zero.

SUMMER VARIETIES.

- ASTRACHAN RED**—Russian. A handsome apple, roundish, medium to large, nearly covered with deep crimson, overspread with a heavy bloom, fine flesh, acid juicy, rich, beginning to ripen early in August. Tree hardy, upright, spreading with age, productive.
- CHARLOTTENTHALER**—Russian, very similar to Yellow Transparent, oblate, conical, medium size, greenish yellow, fine flesh, acidulous, tender, good for cooking and dessert, useful for a near market. Tree upright, productive, very hardy, valuable for the North.
- DUCHESS (Duchess of Oldenburg)**—Russian, roundish, oblate, medium to large, skin yellow, streaked with red and somewhat blushed, juicy, rich, sub-acid. Almost entirely exempt from attacks of fungus (scab), hence particularly valuable. Season end of August and early September. The most profitable early variety to plant. Tree productive, hardy to very hardy.
- EARLY HARVEST**—Fruit roundish, oblate, medium size, straw color, tender, sub-acid, and fine for dessert and cooking. Season one of the very earliest. Tree productive.
- EARLY STRAWBERRY**—Russian, roundish, medium to large, heavily striped with deep red, flesh tender, agreeable, firm. Season end of August. Tree only a moderate grower, good bearer and shipper, very hardy.
- GOLDEN SWEET**—Roundish, large size, pale yellow, very sweet and agreeable. August and early September. Tree a robust spreading grower, productive.
- GYPSY GIRL**—Russian, fruit roundish, large to very large, rich deep red without bloom, fine flesh, acidulous, juicy, a fine eating apple and one of the best market varieties. Season immediately after the Duchess. Tree upright, spreading, fairly hardy, productive.
- KRUPNEENA (Enormous)**—Russian. Roundish, oblate, very large when well grown, usually at least four inches across; yellow ground, suffused with red on the sunny side, with dark red blotches. Tree moderate, annual bearer, supposed to be very hardy.
- LIVELAND RASPBERRY**—Russian. Roundish, medium size, flesh white, often streaked with red, juicy, with scarcely any solidity, a good dessert fruit. August to September. Tree, upright grower, spreading with age; very hardy.
- LANGFORD BEAUTY**—See Russell.
- MONTREAL PEACH**—This, although grown in the Province of Quebec for many years, is a Russian. Fruit medium to large, conical, pale straw color, with a fine salmon rose cheek. Season, early September. Texture all that can be desired in a first-rate apple. Tree very productive, hardy and vigorous. Free from blight.
- POINTED PIPKA (Arabskoe, Summer Arabka, Charlamoff)**—Russian. Oblong, conical, above medium to large, pale yellow, well splashed with bright purplish red or carmine. Flesh white, rather coarse, juicy, mildly sub-acid, with a pleasant flavor, comes just before Duchess. An excellent dessert apple for near-by market. Tree very hardy, and spreading, strong grower and heavy bearer.
- RUSSELL (Langford Beauty)**—Originated in Russell County, Ont. Fruit, medium roundish, pale yellow, skin covered with deep red. Flesh white, tender, melting; juicy, with pleasant flavor, having a suggestion of Fancuse about it. Core medium quality, good. Season, August to September. This variety can be recommended for its extreme hardiness. To save confusion with a Maine seedling called Russell, the name of Langford Beauty, with which the above Canadian variety is synonymous, has been adopted at Ottawa.
- SWEET BOUGH**—Roundish, oblong, large to very large, pale yellow, very tender, rich, sweet and aromatic. August to September. Tree a moderate grower, very productive.
- TETOFISKY**—Russian. nearly round, medium size, yellow, beautifully striped with red, quality medium. Season, July and August. Tree very hardy, and very productive, bears at a very early age, and is somewhat of a dwarfish nature, so will stand close planting.
- TITOVKA**—Russian. So nearly identical with Gypsy Girl that another description is unnecessary.

YELLOW TRANSPARENT—Russian; fruit conical, medium size, greenish yellow, fine flesh, sub-acid, tender. An excellent apple for either cooking or dessert; very early—perhaps the most profitable early fall apple for near-by market. Tree very hardy and productive. More largely planted than any other early apple on account of its many excellent qualities.

AUTUMN VARIETIES.

ALEXANDER (Emperor)—Roundish, conical, very large; skin greenish yellow, well splashed with deep red; flesh yellow, rather coarse, moderately juicy, sub-acid, with a splendid flavor. Season October. Tree vigorous spreading, productive, very hardy.

BLENHEIM PIPPIN—An English apple. Fruit large, oblate; skin golden yellow, well washed and splashed with orange red mostly on the sunny side, crisp, tender, sub-acid, of good flavor, quality good to very good. Season November to December. Tree a strong grower and good bearer. This variety is entirely exempt from the attacks of fungus (scab) which is a matter of great importance in an apple, as to add enormously to its value, especially for fall and winter varieties, that they may be desirable for export or shipping long distance.

BEITIGHEIMER—A German apple, roundish, somewhat conical, very large, pale green ground, nearly covered with purplish crimson, flesh white, firm, sub-acid; quality medium. Season early fall. Tree a very abundant bearer and hardy.

BANK'S RED GRAVENSTEIN—Originated in Nova Scotia. Similar in shape and size to Gravenstein, color much redder, being nearly covered with red on a yellow ground; texture and flavor quite the same as the Gravenstein; season the same as the Gravenstein. This apple differs very little from the ordinary Gravenstein, excepting in color, which makes it more attractive and ought to make it a more popular variety.

CHENANGO (Sherwood's Favorite, Sheep's Nose)—Oblong, conical, medium to large, yellow ground, over-spread with red on the sunny side; flesh white, juicy, very mild and tender, slightly sub-acid. Season early September. Highly valuable as a table apple. Tree rapid, handsome, upright grower, productive, and at an early date.

COLVERT—Roundish, slightly oblate, very large, striped with red on the sunny side, sub-acid, tender; season early October, among the first of the fall apples; a strong grower and heavy bearer.

DUDLEY (North Star)—A hardy, productive variety, which is being planted in some sections exclusively. Fruit fairly large, bright greenish yellow, splashed with red attractive appearance, and good in quality. Tree vigorous spreading grower. Season September and October, sometimes later.

FALL PIPPIN—Roundish, large to very large; greenish, turning to yellow when ripe; tender, juicy and rich; one of the best fall apples, especially for cooking. Season October. Tree vigorous and productive.

GIDEON—Roundish, conical, above medium size to large, skin yellow with a bright, rosy blush; flesh white, crisp, juicy, brisk, sub-acid, liable to water core. Season October and early November. Tree extremely hardy and very strong grower, and moderately productive; valuable for the far north.

GRAVENSTEIN—Roundish, large to very large, skin well splashed and streaked with orange red; flesh tender, crisp, sub-acid and very highly flavored; quality very good. Season end of September and October. This is counted one of the very best fall apples, especially in Nova Scotia. Tree a strong spreading grower and very productive.

GOLDEN WHITE (Antmann)—Russian, roundish, conical, a large showy apple, heavily striped with brilliant red; flesh tender, juicy, aromatic, spicy. Season October. Tree very hardy, vigorous and very productive.

HIBERNAL (Romna)—Russian, oblate, conical, above medium to large, pale greenish yellow, splashed and streaked on the sunny side with purplish red; flesh yellowish, crisp, tender, juicy, acid; quality about medium. Season September to November. Tree extremely hardy and a strong spreading grower and very productive. This is a fine cooking apple, and on account of its extreme hardness and productiveness one of the best Russian apples.

HAAS (Fall Queen, Grosppommier)—Oblate, medium to above medium size, skin yellow, well splashed with deep (sometimes brownish), red; flesh white, juicy, sub-acid with little characteristic flavor, rather astringent, quality medium only. Tree hardy and a very strong upright grower, and a good annual bearer; desirable only in the colder parts of the apple growing districts.

JERSEY SWEET—Medium size, striped, red and green, tender, juicy and sweet, a table and cooking apple of merit. Season September and October; a good grower and bearer.

KESWICK CODLIN—Conical, slightly ribbed, above medium size, skin a greenish yellow, when ripe, with faint blush on one side; flesh crisp, juicy, acid a good cooking apple. Season September and early October. Tree a good grower, regular bearer and hardy.

LONGFIELD—Roundish, conical, slightly angular, medium size, skin pale yellow, almost white, with a bright pink blush; flesh white, crisp, very juicy, very tender, melting, sub-acid, quality good. Season October and November. Tree very hardy and moderately spreading grower, somewhat pendulous, a very heavy bearer, and good apple for the north on account of its hardness.

McMAHON'S WHITE—Roundish, slightly conical, large to very large, skin pale waxy-yellow, almost white, with a delicate pink blush; flesh white, rather coarse, crisp, juicy, sub-acid; quality above medium, an excellent cooking apple. Season, October and November. Tree a very strong grower and heavy bearer, and apparently very hardy.

MAIDEN'S BLUSH—Fruit oblate, smooth, regular, good medium size, pale yellow, almost white, with an exquisitely beautiful red cheek, shaded or blushed; flesh white, tender, with a pleasant sub-acid flavor; one of the choicest apples grown for near-by market, but on account of its delicacy of skin it requires very careful handling for long distances. Season September and October. Tree very productive.

MUNSON'S SWEET—Medium to large, pale yellow, with red cheek, tender, juicy. Season October and November. Tree a vigorous grower and a good bearer.

NORTH STAR. See Dudley.

PUMPKIN SWEET (Pound Sweet)—Roundish, very large, greenish color, turning to yellowish russet when ripe, of medium quality. Season October and November. Tree vigorous and productive.

RIBSTON PIPPIN—Roundish, large size, yellow, overspread on sunny side with dull red, a most excellent dessert and cooking apple; not subject to fungus (scab), and on that account as well as its other good qualities, one of the most profitable to plant in the best apple growing districts of Ontario and Nova Scotia. Season November and December. Tree productive.

RED ANIS—A roundish apple, pale greenish yellow, well-splashed and streaked with a purplish red, below medium in size; flesh white, crisp and tender; quality above medium to good. Season late September and early October. Tree productive and very hardy.

ST. LAWRENCE—Roundish, oblate, yellowish green, heavily striped and splashed with carmine, size large, flesh white, slightly stained, crisp, juicy, tender and vinous. Season September and early October. Tree hardy and productive.

SWITZER—Russian, a handsome round apple, glowing red color on a white ground, medium to large, mild flavor, fine quality. Season last of September and October. Tree hardy and productive.

TWENTY OUNCE—Round, slightly oblate, very large, yellow ground striped with dull red, good and sprightly, but not highly flavored. One of the best cooking apples. Season October to December, sometimes being classed as a winter apple. Tree vigorous, moderately productive.

WOLFE RIVER—A Wisconsin apple. Fruit conical, very large, greenish yellow, nearly covered with dark red or crimson, flesh yellowish, moderately juicy, rather tender, sub-acid with a pleasant flavor, quality above medium. Season November and December, sometimes classed as a winter apple. Tree hardy and a strong spreading grower, a good bearer in alternate years. One of the most desirable late fall apples for the northern parts of the great apple belt.

WEALTHY—Fruit roundish, medium to large size; skin yellow, well splashed and washed and sometimes completely covered with crimson; flesh yellowish, sometimes tinged with red, crisp, tender, juicy, brisk sub-acid, with a pleasant aromatic flavor; quality good to very good. Season September to December. Tree a spreading, strong grower and a very early and very heavy bearer; very hardy. This is without doubt the most valuable fall and early winter apple ever introduced. It is valuable as a September apple in the South, as an October apple in the North of the apple belt, and as a November apple, keeping well in December, for the most northern parts of Quebec and Ontario.

WINTER VARIETIES.

AMERICAN GOLDEN RUSSET—Roundish, oblate, medium in size, clear golden russet, very tender, juicy, rich; season February to May. Not subject to fungus (scab). Tree hardy and a good bearer.

AMERICAN PIPPIN—Fruit roundish, medium to large, greenish yellow, with a pink or orange blush, or lightly splashed with same; flesh yellow, firm, crisp, juicy, sub-acid. Season very late winter, keeping until June. Tree a vigorous grower, and productive; hardy. Valuable on account of size, appearance and long keeping qualities.

ARCTIC—A flat dark or bright red apple, of medium size, a fair flavor when fully ripe, keeps until late winter with proper care. Tree hardy and productive.

BALDWIN—Roundish, large, deep bright red, juicy, crisp, sub-acid, good flavor. Season January to April. Tree vigorous, upright, very productive. Through the great apple belt of Canada, the Baldwin stands in the very highest class for profit.

- BEN DAVIS**—Roundish, conical apple, medium to large in size, yellowish ground, striped more or less with red, according to the season, soil and amount of sun; quality rather below medium. Season February to May. Tree moderately vigorous, hardy, extremely productive, even at a very early age. This apple is valuable chiefly on account of its productiveness, early bearing and long keeping qualities.
- BOYS' DELIGHT**—A new apple of exceptional merit. The parent tree, though not at all a large one, is an annual bearer. The fruit, which somewhat resembles Fameuse, from which it originated, is a beautiful dark crimson, and is susceptible to a very high polish. The fruit is apparently free from scab and other blemishes which can so often be found on the snow apple. Flesh firm, sweet, and the fruit possesses in every way the correct flavor of a high class dessert apple.
- BLUE PEARMAIN**—Roundish, slightly conical, large, striped with dull purplish red, over a dull yellow ground; sometimes has a bluish bloom; flesh yellowish, mild, rich, aromatic flavor. Season October to February. Tree a strong grower, moderately productive.
- BELLE DE BOSKOOP**—An apple of large size, bright yellow, washed with light red on the sunny side, sometimes with a sprinkling of russet; flesh crisp, firm, juicy, sprightly sub-acid. Season January to March. Tree hardy, productive, vigorous.
- BOTTLE GREENING**—Size large, color greenish, shaded on the sunny side with beautiful carmine, of fair quality. Season December to March. Tree vigorous, productive and hardy.
- BOGENDOFF**—Russian; fruit oblate, large, skin green, overspread and splashed with red; flesh white, juicy, sub-acid. Season last of October to February. A strong upright grower and hardy.
- BAILEY SWEET**—Conical, large, deep red, tender, rich and sweet. Season November to April. Tree vigorous, upright and productive.
- BETHEL**—Fruit roundish, slightly angular, large; skin greenish yellow, splashed and streaked with carmine; flesh whitish with traces of pink; juicy, mildly sub-acid; quality good. Season mid-winter to late winter. Tree a moderate grower; very hardy.
- CRANBERRY PIPPIN**—Roundish apple, large size, strictly handsome appearance, being well splashed and washed, especially on the sunny side, with bright red on a light yellow ground; flesh white, crisp, moderately juicy, rather coarse; sub-acid; flavor not very marked; quality medium. Season November to February. Tree a very strong, spreading grower and very productive, one of the most profitable apples for market.
- CANADA BALDWIN**—Fruit roundish to slightly oblate, of medium size; skin yellow, well washed, splashed and streaked with bright red and crimson; flesh white, tinged with red almost to the core, rather coarse, firm, inclined to be corky, fairly juicy, mild sub-acid with a pleasant flavor, slightly astringent. Season January to March. Tree an upright, strong grower, moderate annual bearer; hardy to very hardy.
- CORNISH AROMATIC**—Roundish, angular, of medium size; color red marked with russet, yellow dots; flesh yellow; flavor rich; aromatic, sub-acid; good. Season October to December.
- COOPER'S MARKET**—Oblate, conical; size medium; color yellow with red streaks; mild flavor; quality hardly medium. Season February to May. Tree very productive; considered valuable on account of its late keeping qualities and productiveness, and because the fruit sticks well to the tree, the growth of the tree being somewhat of a willowy nature.
- CANADA RED**—Oblate, slightly conical; fruit medium to large; skin yellow, well splashed and washed with deep rather dull red; flesh yellowish, tender, moderately juicy, mild sub-acid, with a pleasant but not high flavor; quality good. Season January to April. Tree poor grower, generally productive; hardy.
- ENGLISH RUSSET**—Fruit slightly conical, medium size, pale greenish yellow, about two-thirds covered with russet; flesh yellowish, white, firm and crisp, with pleasant, slightly sub-acid flavor. Season, January to May. Tree hardy and productive.
- FAMEUSE (Snow)**—A handsome, roundish apple of medium size; skin pale yellow, almost or completely covered with deep red, or streaked and splashed with red when fruit is not well grown; flesh very white, very tender, juicy, sub-acid, with a fine flavor and a delicate perfume; quality best; season November to January. Tree a moderately strong grower, very productive and very hardy.
- FALLWATER**—Fruit globular in shape, very large in size, of a yellowish green color, with a dull red cheek; quality scarcely medium. Season January to March. Tree a strong grower, very productive.
- GANO**—Form roundish, conical, size medium to large; skin yellow, almost completely overspread with crimson, not splashed or striped as Ben Davis; flesh dull white, somewhat tenderer than Ben Davis, moderately juicy, highly sub-acid, has no characteristic flavor; quality medium only. Season February to May. Tree hardy, vigorous and very productive, bearing heavy crops annually.

- GRIMES' GOLDEN**—Shape somewhat cylindrical, medium to large; skin golden yellow, sprinkled with grey dots; flesh crisp, tender, juicy; quality very good to best. Season January to April. Tree hardy, vigorous, productive. One of the most valuable winter apples for home use.
- HUBBARDSON NONSUCH**—Fruit roundish to oblong, conical, above medium to large, skin yellow, splashed and washed with orange red and purplish red; flesh yellowish, crisp, very tender, melting, mildly sub-acid, with a pleasant flavor; quality very good. Season December to February. Tree a strong spreading grower, a good bearer and moderately hardy.
- HURLBURT**—Fruit conical, of medium size, color yellow, shaded with red stripes, and splashed with dark red; flesh white, crisp and tender, juicy, mild sub-acid; quality excellent. Season December to February. Tree hardy, productive and an early bearer.
- JONATHAN**—Fruit roundish, conical, of medium size, handsome appearance, being a pale yellow, striped and mostly overspread with red; flesh white, tender and juicy; of the Spitzenburg class; esteemed very highly on account of the quality of the fruit. Season November to March. Tree very productive, and a moderate grower.
- JACOB'S SWEET**—A roundish apple, of large size and handsome, showy appearance; skin greenish yellow, with a beautiful blush on the sunny side; of excellent quality. Season December to January. Tree a strong grower, heavy bearer. One of the best winter sweet apples.
- KING (King of the Tompkins)**—Fruit roundish, somewhat oblate, of very large size; skin yellow, well splashed and washed with bright crimson and orange red; flesh yellow, crisp, tender, melting, moderately juicy, with a rich, high aromatic and very agreeable flavor; quality among the best. Season November to January. Tree a strong spreading grower, but an uncertain cropper.
- LA VICTOIRE**—Originated near Grenville, P. Q. Handsome apple of Fameuse style, above medium oblate and regular. Skin greenish yellow, covered with crimson; white flesh, tinged with red, juicy and pleasing flavor, small core; quality good. Season mid-winter. Tree exceptionally hardy.
- LAWVER**—(Delaware Red Winter)—Fruit roundish to oblate, medium size; skin yellow, nearly all or quite covered with bright, deep red; flesh yellow, faintly tinged with pink, firm, crisp, tender, juicy, sprightly sub-acid, slightly aromatic; quality above the medium. Season February to May, being one of the longest and best keeping apples grown, having kept for a year in an ordinary cellar. Tree hardy, moderately vigorous and upright; an annual bearer, but not a heavy cropper. This is one of the most valuable apples for the northern part of the apple belt.
- LA RUE (Baxter or Red Pound)**—Roundish oblate, very large, dark red, quality fair. Season November to January. This apple, owing to its large size, handsome red color, sells at the highest price on the market. Tree very hardy and productive; a strong, vigorous and upright grower.
- LADY (Pomme D'Api)**—Oblate, small size; color pale yellow, with a brilliant red cheek; flesh juicy, crisp, pleasant; a beautiful little dessert fruit. Season November to April. Tree a moderate grower; productive; fruit hanging in clusters.
- MANN**—Roundish, oblate, medium to large, green, turning to yellow when fully ripe, with sometimes a shade of brownish red on the exposed cheek. Not subject to fungus (scab). Flesh yellowish, juicy, mild, pleasant, sub-acid. Season January to May. A hardy, long keeping apple. Tree upright, productive and hardy; bears at an early age.
- McINTOSH RED**—Originated with John McIntosh, Dundela, Ont., on the St. Lawrence River. Roundish, medium to large; skin pale yellow, almost entirely covered with crimson, dark on the sunny side; flesh white, crisp, very tender, melting, juicy, sub-acid, sprightly, with a pleasant aromatic flavor. Season November to January. Tree hardy and a strong moderate upright grower, and an annual and medium bearer. For its season the McIntosh Red is one of the best apples grown, especially in the northern part of the apple belt and further north.
- MILWAUKEE**—A seedling of the Duchess. Oblate, fruit large in size; color yellowish green, splashed and washed on the sunny side with bright red and crimson; flesh yellowish, crisp, very tender, juicy, acid, with but little characteristic flavor; quality above medium. Season December to March. Specially a cooking rather than a table apple. Regarded as one of the most valuable apples for the North. Tree very hardy, an early and heavy bearer.
- MUSKOKA BEAUTY**—This apple originated at Bracebridge, in Muskoka, where the original tree has borne heavy crops year after year. Roundish, slightly oblate, very large in size, color white, heavily marked with stripes of pink crimson, nearly all red in the sun. Season November to January. Bears at a very early age, heavy crops.
- NORTH WESTERN GREENING**—Oblate, nearly round, large, green, turning to yellow when fully ripe; flesh yellow, somewhat coarse, juicy, sub-acid; quality good. Season January to May. Tree extremely hardy, having, it is said, stood 50 below zero; productive.

- NORTHERN SPY**—Roundish, slightly conical; large to very large; light yellow, striped, and often entirely covered on the sunny side with red; flesh white, tender with a mild sub-acid, rich and delicious flavor. Tree should be kept open by pruning so as to admit air and light freely. Season January to June. Perhaps the most valuable apple grown in Canada considering all points. Tree hardy, very productive, but does not commence to bear until quite late.
- NEWTON PIPPIN**—Round, slightly oblate; medium to large; color yellow; flesh very firm, crisp, juicy, with an agreeable flavor. Season November to June. Tree is a slow, feeble grower and requires the highest cultivation.
- ONTARIO**—A cross between the Wagner and Northern Spy, originated by the late Charles Arnold, Paris, Ontario. Oblate, somewhat roundish; large to very large; skin yellow, usually well washed and splashed with bright red and carmine; flesh white, crisp and tender, brisk sub-acid, sprightly, slightly aromatic; quality very good. Season January to April. Tree upright and moderately vigorous; an early and heavy bearer; one of the best apples, both for commercial and home use. Specially valuable to plant as a filler in a permanent orchard of other varieties.
- PECK'S PLEASANT**—Large; pale yellow with red cheek; flesh firm and rich, approaching the Newton Pippin in quality. Season November to March. Tree a moderate and correct grower; productive.
- PEWAUKEE**—A seedling from the Duchess of Oldenburg. Fruit roundish, oblate; medium to large; a bright yellow, partially covered with dull red; flesh yellowish white, crisp, juicy, flavor sub-acid. Season December to March. Tree a strong, upright grower, very hardy and very productive, and comes into bearing at a very early age.
- PHENIX**—Roundish, slightly oblate, medium to large; color light yellow splashed and streaked with rich red; flesh yellowish, coarse, moderately juicy, sub-acid. Season December to March. Tree productive, hardy, but a slow grower.
- POMME GRISE**—Oblate, small, a beautiful grey russet apple with a slight blush next the sun; flesh tender and highly flavored. Season December to May. Tree a very poor grower, moderately productive.
- PRINCESS LOUISE**—Fruit medium size; color greenish, almost covered with a handsome rich red, splashed and striped; quality first-class. Season November to February. Tree hardy and productive.
- QUEEN OF THE NORTH**—Roundish, slightly oblate, large to very large; pale yellow, striped and splashed with red on the sunny side. Season November to December. Tree very productive and very hardy; bears at an early age.
- ROME BEAUTY**—A large round apple, greenish, dull red on the sunny side; tender, juicy, crisp, sub-acid. Season December to March. Tree a moderate grower, productive and hardy, and an annual bearer. Fruit hangs well on the tree.
- ROXBURY RUSSET**—Very similar to the Nonpareil of Nova Scotia. Fruit oblate, conical, medium to large; color greenish yellow, more or less russeted, sometimes with a bronze blush; flesh yellowish, tender, moderately juicy, sub-acid, with a good, rich flavor; quality very good. Season February to June. Tree moderately vigorous, but productive.
- RHODE ISLAND GREENING**—Roundish, oblate, large to very large, greenish, turning to greenish yellow when ripe, sometimes with a light blush on the sunny side; tender, juicy and rich, with a somewhat acid flavor. One of the very best cooking apples on the entire list. Season December to March. Tree a very strong grower, of a somewhat spreading habit, still one of the most profitable apples to plant in the Southern apple belt.
- RUFUS**—Originated at Perth, Ontario, in the grounds of Miss J. Matheson. A dark red apple, very handsome. Slightly conical, and ribbed calyx, stem very shallow. Quality good. This variety is exceptionally hardy, and the fruit is said to keep well until April.
- ROLFE**—Oblate, size large, color yellow, mostly covered with dark red, sometimes striped; quality good, both for dessert and cooking. Season November to January. Tree hardy, productive and an annual bearer.
- RUFUS**—Form conical and ribbed, size medium to large; skin dark red and very handsome; quality very fair. Season January to April. Tree hardy, said to be vigorous and productive.
- SEEK-NO-FURTHER**—Roundish, conical, medium to large; skin yellow, well washed and splashed with deep red; dots numerous, large, yellow, distinct, prominent; flesh tender, rich and excellent in quality. Season November to February. Tree a moderate grower and fairly good bearer; a very good, all-around apple, especially for home use. This apple is very free from the attacks of fungus (scab).
- SPITZENBURG ÆSOPUS**—Roundish, conical, medium to large; yellow, mostly overspread with bright red; flesh yellow, crisp, sub-acid, with a rich, aromatic flavor peculiar to itself. Season December to March. Tree a moderate grower, productive on rich soil, but does not succeed well with poor cultivation or on poor soil.

- SUTTON BEAUTY**—Round, oblate, conical, medium size; waxen yellow, striped with crimson; flesh white, juicy, tender, sub-acid; quality very good. Season December to March. Tree a free grower and productive. Accounted one of the valuable newer apples.
- SCOTT'S WINTER**—Roundish, conical; medium to below medium in size; skin yellowish, well splashed and washed with deep orange and purplish red; flesh yellowish, crisp, tender and juicy; acid but with pleasant flavor; quality above medium. Season February to May. Tree very hardy and a strong, upright grower, an annual and a heavy cropper.
- SALOME**—Roundish, conical; medium to below medium in size; skin pale yellow, splashed and washed with a bright sometimes rather pale red, overspread with a delicate pink bloom, making the fruit very attractive looking; flesh very tender, moderately juicy, sub-acid, slightly aromatic; quality good. Season February to June. Tree a strong, upright grower, hardy and very productive. This is a valuable apple as a late keeper in the Northern part of the commercial apple belt.
- STARK**—Roundish; fruit large; skin greenish yellow, more or less splashed and washed with brownish pink, mostly on the sunny side; flesh yellow, moderately juicy, rather coarse, mildly sub-acid, pleasant but not high flavored; quality fair to good. Season February to May. Tree an exceedingly strong grower, of moderately spreading habit, very productive in the commercial apple belt, and bears at an early age. Certainly one of the most profitable commercial apples.
- SWAZIE POMME GRISE**—Supposed to have originated near Niagara, Ontario. Roundish, oblate; below medium in size; skin yellow, covered with a thin russet nearly all over; flesh pale greenish yellow, crisp, breaking, tender, juicy, slightly sub-acid, with a high aromatic flavor; quality very good to best. Season February to April. Tree hardy, but only a moderate grower, and not a heavy cropper. A fine dessert apple.
- SCHIAWASSE BEAUTY**—Fruit oblate; medium to large; marbled, splashed and striped with rich red; flesh firm, very white, tender, juicy, brisk sub-acid, with a dash of Fameuse flavor. Good cooker and apparently free from attacks of fungus (scab). Season November to February. Tree heavy bearer alternate years; very hardy.
- SWAAR**—Large roundish apple of pale lemon color; flesh tender, rich and spicy. Season November to April. Requires high cultivation to be productive.
- SCARLET PIPPIN**—Roundish, inclined to be oblate, medium size; exquisitely handsome appearance, skin being yellow, waxy, nearly always covered with a bright to dark crimson in stripes or suffused patches, overspread with a light bloom; flesh firm, white, flaky, crisp, melting sub-acid, juicy; quality among the very best. Season November to February. Tree very hardy and productive.
- TALMAN SWEET**—Roundish, oblate, medium to large, skin yellow when fully ripe, sometimes a faint blush on the sunny side; a distinct line usually runs from the stem to calyx; flesh white, moderately juicy, with a high flavor; quality good. Season December to April. Tree hardy and very productive and a strong spreading grower. One of the most valuable sorts on which to top-graft Northern Spy or any other variety.
- WAIT'S SEEDLING**—A valuable seedling apple introduced by S. C. Waite, Esq., of "Echolands," Saint George, Ont. The fruit very much resembles A. G. Russett, but it is larger in size and has an attractive pink cheek. Its two main strong points are absolute freedom from scab and fungus, and its enormous bearing quality. The fruit keeps well till late spring.
- WALBRIDGE**—Oblate, medium to large; skin pale yellow, shaded with red; quality only medium. Season December to March. Tree very hardy and productive. An extremely vigorous and valuable apple for the north, especially for top-working other sorts on.
- WAGNER**—Oblate, medium size; skin yellow, mostly overspread with light red; flesh yellowish, crisp, very tender, juicy, briskly sub-acid, pleasant flavor; quality very good to best. Season January to April. Tree a very early bearer and extremely productive. Tree is too tender for the northern parts.
- WINTER ST. LAWRENCE (Rambour Barre)**—Roundish, slightly conical, medium to large; skin greenish yellow, well covered with deep red, through which are dark red purple splashes and streaks; flesh yellow; rather soft, moderately juicy, sub-acid and good flavor; quality good. Season November to January.
- WINTER ARABKA (Lord's Apple)**—Russian; form round, oblate, very large, handsome, purplish red, almost black; quality fair, especially for a cooking apple. Season November to February. Tree very hardy, productive, valuable for the north.
- YELLOW BELLEFLOWER**—Oblate, conical, large pinkish yellow; flesh yellow, tender, buttery, juicy, with a pleasant sub-acid flavor, quality good. Season November to February. Tree a spreading, moderate grower, productive.
- YORK IMPERIAL**—Oblate, flattened, medium size; skin yellow, splashed and washed with bright red; flesh yellowish, crisp, tender, moderately juicy, mildly sub-acid; quality above medium. Season February to May. Tree a moderate grower, but productive.

CRAB APPLES

- EXCELSIOR**—Fruit large, very handsomely colored. Season early fall. One of the best flavored of the crabs. Tree very hardy and a profuse bearer.
- GENERAL GRANT**—Round, oblate; size large; creamy yellow ground with broken stripes becoming dark red on the sun exposed side; flesh white, very mild sub-acid. Season October. Tree vigorous upright grower.
- HYSLOP**—Roundish, above medium size; yellow ground with very deep crimson cheek, an extremely beautiful fruit; acid. Season one of the latest. Tree extremely hardy; a very heavy loader. A crab that it would seem almost impossible to excel in all the good qualities of a crab.
- MONTREAL BEAUTY**—Fruit large, bright yellow, shaded with red; flesh yellowish, firm, acid. Season October and November. Tree a very strong grower and very hardy. One of the most beautiful of the crabs.
- MARTHA**—Medium size; glassy shaded with bright red, yellow with a red cheek; fruit mild and tart. Season October and November. Tree very hardy, a strong grower and profuse bearer.
- MUSKOKA CHAMPION**—A seedling originating at Bracebridge, Ontario. Size very large, and of extremely beautiful appearance, almost covered with a bright almost scarlet color; flavor rich, tartish, flesh fine grain. This is a new production which bids fair to take a high place among the crabs on account of its extreme beauty, large size and productiveness.
- ORANGE**—Fruit large; yellow color; flesh firm, brisk, juicy and delicious. Season October and November. Tree a moderate grower, annual and abundant bearer.
- TRANSCENDENT**—Roundish, oblate; size very large; skin yellow, well striped with red; juicy, brisk, not a bad eating apple where apples are scarce. Season September. Tree extremely productive, very hardy and a strong, vigorous grower. It can hardly be expected of any crab to excel this as an early fruit.
- VAN WYCK**—Large, handsome; skin mottled with bright red; flesh white, firm and sweet. Season last of August or early part of September. Tree only a moderate grower.
- WHITNEY**—Large to very large; skin glosssy green, striped and splashed with carmine; flesh firm, juicy; flavor pleasant. Season end of August and early part of September. Tree a very upright, straight grower, with very dark green, glossy foliage. One of the best.
- YELLOW SIBERIAN**—Medium size; yellow color; quality fair. Season September. Tree vigorous.

Hybrid Apples on Baccata Roots

(Cross-bred "Baccatas")

In 1887 Professor Saunders commenced experiments with the Baccata Crabs. The female parent plant used in this work was the Berried crab, "Pyrus Baccata." This Crab grows in great abundance on the shores of the Baikal Sea, and the original seed was procured from the Imperial Botanic Gardens at St. Petersburg, Russia.

During a trial of 15 years, this crab has never been injured by winter, and the terminal buds have started out on the branches every season. These trees have fruited abundantly for many years, and at an early age, and their whole character shows that there is nothing better adapted for planting in the Northwest.

These extremely hardy trees have been cross hybridized with the hardiest of our Canadian Apples by Professor Saunders, with the object of securing some varieties of Apples of pronounced merit that will stand the low temperatures which at times prevail in Manitoba and the Northwest Territories.

The young trees resulting from the experiments with these Crabs have been planted in the most exposed situations on the North Western Experimental Farms, and have shown no indications of tenderness of any kind.

I have been growing these trees for several years, and I have now got together an excellent stock of all varieties listed in three different sizes.

In addition to the cross-bred varieties listed in following list I have a large collection of the hardiest of our Canadian apples, budded and grafted on the hardy Baccata roots. I offer these also to my customers in Northern Ontario, Quebec and the North-western Provinces, feeling confident that both root and scion are sufficiently hard to withstand the exposures and rigid winters to which they are likely to be subject.

EXTRA HARDY CANADIAN AND RUSSIAN VARIETIES.

(Budded and Grafted on Baccata Root)

Bethel	Krupneena	Snow (or Fameuse)
Charlottenthaler	Milwaukee	Scott's Winter
Crimson Beauty	McIntosh	Tetofsky
Duchess	Queen of the North	Wealthy
Gypsy Girl	Russell	Yellow—Transparent
Hibernal	Rufus	

CROSS-BRED APPLES

(On Baccata Roots)

(Dr. Saunder's)

ALBERTA—Size large, color yellow with a handsome red cheek, tree a very fine and strong grower, very productive.

CHARLES—A cross between Pyrus Baccata and Tetofsky, medium to large, flesh somewhat tough but solid, sharp acid crisp like flavor, season last of August at Ottawa, tree a strong grower.

COLUMBIA—Fruit of the largest size of this class, yellowish with a dark crimson cheek, very handsome, flavor fair as an apple, distinct from a crab, tree a very strong grower, one of the most desirable.

DAWN—Large size, color light crimson, very fine appearance, flavor medium, more like a crab than an eating apple; in appearance this is one of the most desirable.

ELSA—A cross between Pyrus Baccata and Yellow Transparent; size large, color a beautiful yellow; season very early, August 15th at Ottawa; tree a beautiful grower, foliage very fine; this is decidedly one of the handsomest of the yellow colored sorts.

GOLDEN—Tree a fair grower and quite productive; fruit round, somewhat flattened at the ends; flesh fairly juicy, rather sweet, very slightly astringent, quality good; season last week in August and September.

GORDON—Bright golden yellow with small brown specks; flesh creamy white, not very crisp with a decided crab flavor. Specimens received from Ottawa measured 1½ inches diameter.

JEWEL—A cross between Pyrus Baccata and Yellow Transparent, size medium to large, color yellowish with a good red cheek, very crisp fine acid flavor, one of the best in this respect; season at Ottawa from 20th to 25th of September.

KENT—Tree a good grower and productive, fruit nearly round and ribbed about the calyx, color an orange shade deeper in tint on the sunny side, flesh yellowish white, juicy, crisp, mildly sub-acid, slightly astringent and of fairly good flavor.

MANITOU—Medium size, handsome red cheek, season early and a very heavy loader.

MAGNUS—Tree a strong grower and bearer, color orange and scarlet, flesh firm, rather juicy but not crisp, sub-acid, flavor aromatic, very slightly astringent, quality very good.

PRINCE—Medium size, excellent color, has no calyx; season early Fall, more like an apple than a crab.

PIONEER—Good size, fruit dullish yellow, a very strong grower.

PRAIRIE GEM—Somewhat small in size, but very handsome and very early variety.

ROBIN—A cross between Pyrus Baccata and Simbrisk, medium size, red crimson, crisp and fair flavor, a desirable sort.

RUBY—Medium size, flesh solid, very crisp, flavor fair, not very sharp, decidedly more like an apple than a crab, a desirable sort.

SILVIA—Tree a strong grower and fair bearer, form somewhat pointed and ribbed, flesh of pleasant flavor, sub-acid, no astringency, quality good; the earliest to ripen of all the cross-bred apples yet fruited.

TONEY—Size medium to large, color yellow with crimson cheek, very acid crab flavor, tree a very heavy cropper, attractive appearance and fine grower; one of the most desirable.

PEARS

THE cultivation of this noble fruit is extending, as it is found it can be shipped to Britain with profit and success. The range of varieties is such that, like apples, they can be had in good eating condition from August until early spring.

The Pear, like most things highly desirable and valuable, cannot be had without attention, labor and skill.

One of the most important points in the management of Pears is to gather them at the proper time.

Summer Pears should be gathered at least ten days before they are ripe, and Autumn Pears at least a fortnight. Winter varieties, if they will hang so long, may be left until the leaves begin to fall.

The Pear succeeds on most soils, but does best on a rather heavy loam. Budded on its own stock, it makes a standard tree, and on the French or Angers Quince, a dwarf, the former being best adapted to large permanent orchards, the latter for yards and gardens.

Dwarfs must always be planted sufficiently deep to cover the junction of the Pear and Quince two or three inches—the soil made rich and well tilled, and about one-half of the previous summer's growth cut off each spring. Under this treatment, Dwarfs are everywhere successful. The side branches should not be removed higher than one foot from the ground in Dwarfs, while Standards may be trimmed to the height desired, although the best planters are not trimming branches from the trunks, but allowing them to grow in order to shade the trunk as much as possible. Gather when, on gently lifting the fruit, the stem will readily separate from the limb. Winter pears may hang on the trees until there is danger from frost, then place in a dry cellar for maturing.

The letters "D" and "S" appended to the description of varieties indicate favorable growth, either as "Dwarfs" or "Standards," or both.

SUMMER VARIETIES.

ANDRE DESPORTES—Medium size, pale green color, marbled on sunny side with red; flesh fine, juicy, melting. Season August. Tree a free grower, S. and D.

BARTLETT—Large size, with often a beautiful blush next the sun; buttery, very juicy and highly flavored; bears early and abundantly; very popular. Taking all points into consideration, by far the most valuable pear ever introduced. D. and S. August and September.

BEURRE GIFFARD—An excellent variety; medium size; greenish yellow, red in the sun; very early; very productive, moderate grower. D. and S. Early August, just before Clapp's Favorite.

BESSIMIANKA—Medium size; color yellow; granular, juicy, sweet; quality poor. Origin Russia. Counted among the most hardy.

CLAPP'S FAVORITE—Very large; yellowish green to full yellow when ripe, marbled with dull red in the sun, and covered with small russet specks, vinous, melting and rich. Very productive; being an exceedingly vigorous grower it succeeds well on the very hardest clay. D. and S. Early August, just before Bartlett.

KOONCE—Medium to large; yellow when ripe, reddish on the exposed side, buttery texture, spicy, juicy, sweet; very early. Tree vigorous, unusually free from blight. S.

LAWSON OR COMET—Medium to large; yellow, flushed with the most beautiful crimson; flesh crisp and juicy; a firm, good shipper, and a salable and valuable market variety. Early August, same season as BEURRE GIFFARD. Tree a strong, vigorous but ungainly grower; productive. D. and S.

MANNING'S ELIZABETH—Small to medium; bears in clusters; crimson; crimson and gold color; very beautiful, melting, rich, sugary, sprightly, perfumed flavor; very productive. August. S.

OSBAND'S SUMMER—Small to medium; yellow with red cheek; half melting, mild and pleasant; fine flavor and excellent; productive. D. and S. August.

SOUVENIR DU CONGRESS—Fruit very large, resembling in form the Bartlett; skin smooth, of a handsome yellow at maturity, washed with bright red or carmine on the side exposed to the sun. Flesh much like the Bartlett, having the musky flavor, though in a less degree. S. August and September.

TYSON—Medium size, bright yellow, cheek shaded with reddish brown, buttery, very melting; flavor nearly sweet, aromatic, excellent; very productive. S. August and September.

WILDER—Medium size, yellow, with red cheek, fine quality; ripens very early, about with Lawson and Giffard; not inclined to rot at the core; moderate grower, good yielder. D. and S.

AUTUMN VARIETIES.

BARTLETT-SECKLE—Medium to large; high color; handsome rich and well flavored; of highest quality, being a cross between two of our best pears and combining most of the good points in each. Tree vigorous and productive. September and October. S.

BEURRE CLAIRGEAU—Very large pyriform; skin yellow; inclined to fawn, shaded with orange and green, covered with russet dots; flesh yellow, somewhat granular, with a slightly perfumed, vinous flavor; quality coarse. Very productive, a profitable pear for export. D. and S. October and November.

BEURRE BOSC—A large, fine pear of very distinct shape, having a long neck, a long stem and hangs well on the tree. Russetty yellow, slight brownish, red in the sun; flesh white, melting, juicy, sweet, perfumed; productive. This topworked on Keiffer, as I grow them in the nursery, is one of the very best and most profitable pears grown. It grows feebly on its own stock. S. September and October.

BEURRE D'ANJOU—Very large, greenish, sprinkled with russet, sometimes shaded with dull crimson; flesh whitish, buttery, melting, with a high, rich, vinous, excellent flavor; productive; succeeds well on the quince; should be in every orchard. Stands at the head of the list for export to Britain. D. and S. October to January.

BOUSSOCK (Doyenne Boussock)—A large pear of good quality, resembling the White Doyenne. Tree a vigorous, rapid grower and abundant bearer. This variety is far from being appreciated. I can recommend it as a valuable market and export pear. September.

DEIL (Beurre)—Large size; yellow, russety; granular, buttery, sweet vinous flavor; quality medium. A useful dessert pear. October.

DUCHESSE D'ANGOULEME—Very large, dull greenish yellow, streaked and spotted with russet; flesh white, texture rather granular, with a rich and very excellent flavor. However, on young standard trees the fruit is variable, but as a dwarf this variety is always fine, in fact is planted as a dwarf more extensively than all other sorts combined, and is very valuable for export. D. and S. October and November.

DEMPSEY—Large, obtuse, pyriform, irregular in outline. Skin smooth, green, changing to yellow when ripe, with a slight brown tinge where exposed to the sun. Flesh white, fine grained, tender, buttery, almost melting, with a rich, sweet, delicious flavor. Tree an upright grower. Season October and November. D. and S.

FREDERICK CLAPP, OR CLAPP'S NO. 22—Fruit medium to large; skin smooth, bright yellow; flesh whitish yellow, fine, very juicy, melting, rich, highly vinous and slightly aromatic. Ripens from middle to last of October. Tree a vigorous grower. S.

FLEMISH BEAUTY—Large, symmetrical, beautiful, juicy, melting, rich and fine; in unfavorable seasons scabs freely unless sprayed. Very heavy bearer; hardiest of all pears of good quality. D. and S. September and October.

GOODALE—Fruit large; flesh white, juicy, melting, of excellent flavor and quality. Tree hardy and upright in growth, and uniformly productive; valuable. October. S.

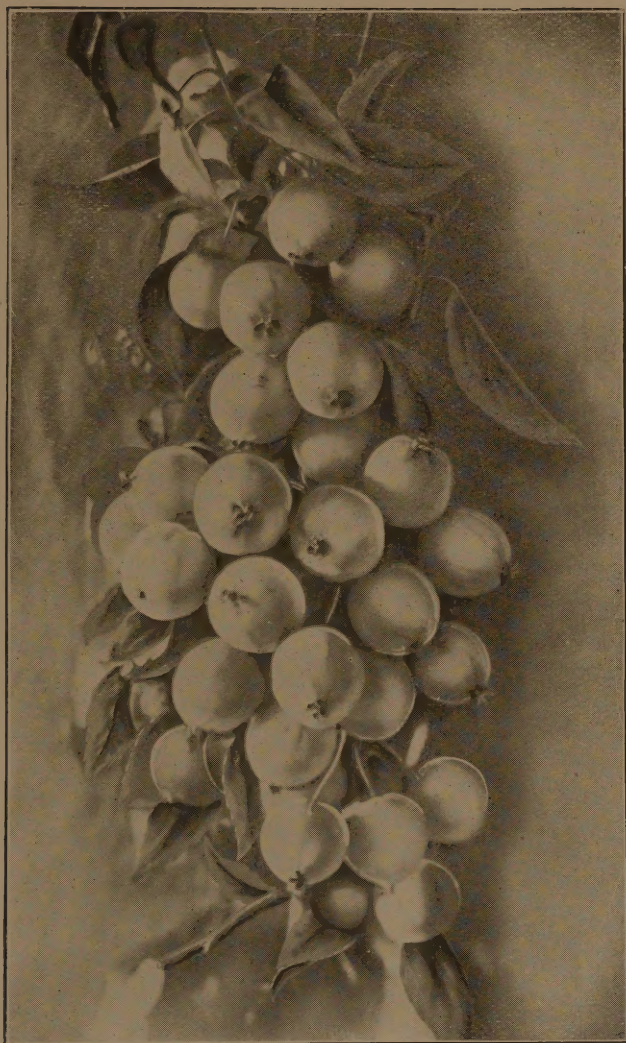
HOWELL—Large, light, waxen yellow, with a fine red cheek; handsome, rich, sweet, melting, perfumed, aromatic flavor. An early and profuse bearer. Very hardy and valuable. Is one of the best for export. September and October. S. and D.

HARDY BEURRE—A large pear; cinnamon russet shaded red; melting, buttery, juicy and vinous. One of the best Autumn pears. Tree a strong grower and productive.

IDAHO—Size very large; form nearly round, resembling Easter Beurre; skin greenish yellow, brownish red on the sunny side, with a surface like that of Duchesse; flesh melting, juicy, slightly vinous, quality fair. Blights badly. October. D. and S.

JAPAN GOLDEN RUSSETT—Small to medium, exceedingly smooth and clean. Resembles in shape and color a small russett apple. Color clear russett; valuable only for ornament, fruit being quite useless. Tree has extraordinary healthy glossy foliage, which with the odd pears, makes it valuable as a shade tree and a novelty.

KIEFFER'S HYBRID—Raised from the seed of the Chinese Sand Pear, accidentally crossed with the Bartlett or some other kind grown near it. Tree has large, dark green, glossy leaves, and is of itself very ornamental; is an early and very prolific bearer. The fruit is wonderfully showy and valuable for market, but not good for table use. Can ship it to Britain without cold storage. It never rots at the core and is nearest blight proof of any pear. S. November and December.



JEWEL (Hybrid Apple, "Baccata"). See page 14.

This small branch, taken off a young grafted tree, was 18 inches long and carried 32 good sized apples.



CORNER OF A BEARING APPLE ORCHARD.



BOX OF CRAWFORD PEACHES.

- LOUISE BONNE DE JERSEY**—Rather large, greenish yellow, with a bright red cheek; juicy, buttery and melting; excellent; very productive. One of the best pears for either home use or market, especially as a dwarf. D. and S. Season September and October.
- LADY CLAPP**—Size and color same as Bartlett, flesh very juicy, rich and melting. Season immediately after Bartlett. This is a decidedly valuable pear and comes in at a good time. Tree vigorous.
- LINCOLN**—Fruit large, solid, golden yellow color, very juicy, rich and agreeable. Season September. Claimed to be an annual. An abundant bearer, very hardy and free from blight. S.
- LUCRATIVE**—Medium size; melting, sweet; bears early and abundantly; tree a free, upright grower.
- SUPERFINE BEURRE**—Medium to large size; yellow ground overlaid with crimson russet; quality fine, juicy, melting and vinous. A most excellent pear either for dessert or market.
- SWAN'S ORANGE (Onondago)**—A very large, melting, sprightly, vinous pear. Tree vigorous, hardy and extremely productive. Another excellent sort for export. October and November. S.
- SHELDON**—Medium size; yellow russet; with a richly shaded cheek; flesh melting, juicy, with a very bristly, vinous, perfumed flavor; productive. A choice pear for home use or market. S. October.
- SECKEL**—Small; skin rich yellowish russety brown when fully ripe, with deep brownish red cheek; flesh very fine grained, sweet, exceedingly juicy, melting, buttery; the richest and highest flavored pear known. Tree a stout, slow, erect and symmetrical grower. Very productive and hardy. D. and S. September and October.
- VERMONT BEAUTY**—A beautiful new seedling pear that originated in northern Vermont. Fruit of medium size; flesh melting, sprightly and of the best quality; tree healthy, hardy and very productive. October. S. and D.

WINTER VARIETIES.

- DANA'S HOVEY**—Small, yellow russetty pear of fine quality; keeps well; a moderate grower.
- EASTER BEURRE**—A large, roundish oval fruit, yellow, with a red cheek; melting and rich. Tree a moderate grower and most abundant bearer; best on the quince as a dwarf. Keeps all winter. D. and S.
- JOSEPHINE DE MALINES**—Medium to large, roundish, yellow, slightly russet; flesh buttery, juicy and sweet; a fine keeper; productive and very hardy; a moderate grower. December to March. D. and S.
- LAWRENCE**—Medium size, yellow, covered with brown dots; flesh whitish, slightly granular, somewhat buttery, with a very rich aromatic flavor; unsurpassed among the early winter pears; succeeds well on the quince; ripens with little care: should be in every orchard; tree healthy, hardy and productive. November and December. D. and S.
- LINCOLN CORELESS**—Storrs & Harrison say of this Pear: Fruit is all solid meat, usually no core or seeds, very large, sometimes weighing over a pound. High colored and handsome; flesh rich, yellow, juicy, aromatic. Season December to March. S.
- MT. VERNON**—Medium size, light russet, reddish in the sun; flesh yellowish, juicy and aromatic, early bearer. A very good late pear. December. D. and S.
- POUND**—A monstrous, large pear of handsome appearance. Yellow with red cheek. Good stewing pear. Tree a moderate grower and productive.
- PRESIDENT DROUARD**—Fruit large and handsome; greenish yellow, red in the sun; melting, juicy, with a delicious perfume. Tree blights badly. March to May. S.
- VICAR (Le Oure)**—Large, long; not first quality, but desirable for its productiveness. Best on quince; a very long keeper; tree blights badly. November to January. D. and S.
- WINTER NELIS**—Medium size, yellowish-green and russet; fine grained, melting, rich and delicious, one of the best winter pears, very productive. Growth moderate and spiny, has to be top worked. December. S.

PEACHES

THE PEACH TREE requires a well-drained, moderately rich soil—a warm, sandy loam is probably the best. In order to preserve the continued healthy growth of the trees and the fine quality of the fruit, the trees should have the shoots and branches shortened every year, so as to preserve a round, vigorous head with plenty of young wood; and the land should not be seeded to grass, but kept in constant cultivation and highly fertilized.

Peach trees should be set 16 to 20 feet apart each way, according to soil and method of pruning. On heavy soil and with trees regularly shortened in, 16 feet apart will do; whereas on deep, moist, rich sandy loam, well underdrained—which is a model peach soil—20 feet each way is not too far, especially if branches are allowed to grow at their own sweet will, as is very often the case. Whenever there is a full set of fruit, it should be thinned so that the peaches are not closer than five inches apart. This is the secret of profit in growing peaches, viz., thinning the fruit so as to produce large, fine specimens.

The following have been selected after an examination of more than one hundred different sorts in bearing, the best only being chosen. They furnish a succession for about two months, commencing the early part of August or last of July:

ALEXANDER—Very early; of good size; handsome and regular in form, with deep maroon shade, covered with the richest tint of crimson, rich and good in quality with a vinous flavor. Very hardy and very productive. Clingstone. July.

ADMIRAL DEWEY—Resembles the Triumph, from which it originated, only it is of better quality and a freestone; flesh yellow, firm and meaty. Tree strong grower, productive, and early bearer.

BEER'S LATE—Very large; yellow, with red cheek; ripens late, about the same time or a little before the Smock. Is considerably larger, very productive.

BANNER—Large, yellow, with rich crimson cheek; yellowish flesh of excellent quality, very small pit, excellent keeper and shipper. Season before Smock; exceedingly productive.

BARNARD—Medium to large; yellow, cheek purplish red, flesh yellow, red at the pit, juicy, sweet and rich. One of the very best yellow flesh peaches, especially for home use. Slightly later than Early Crawford. Very hardy in the bud, and productive.

BELL OF GEORGIA—Very large. Skin white, with red cheek; flesh white and firm. Tree a good grower and productive. Season July.

CARMAN—Large freestone, resembles Elberta in shape. Color pale yellow, with deep blush cheek. Skin tough; flesh tender; a good shipper, and free from rot. Season end of August.

CHAIR'S CHOICE—A late freestone peach of large size; skin deep yellow, with red cheek; firm, and of excellent quality; a good canner. Season September, before Smock.

CROSBY—This extra hardy, yellow flesh freestone peach is still at the head of the list for hardiness. Is exceedingly productive, in fact more than half the fruit should certainly be thinned from the tree usually, in which case, with good cultivation on rich soil, Crosby is a good sized handsome peach, but if allowed to overload, as it will if not thinned, or if planted on poor soil, the fruit will be small. Season about ten days after Early Crawford.

CHAMPION—A very large, hardy white peach, with reddish cheek in the sun, ripening before Early Crawford and highly recommended on account of hardiness, earliness, size and productiveness. Excellent quality.

CRAWFORD'S EARLY—This very beautiful and most popular of yellow peaches is highly esteemed for market purposes. Fruit very large, skin yellow, with fine red cheek; flesh yellow, juicy, sweet and excellent. First of September.

CRAWFORD'S LATE—Fruit of the largest size; skin yellow or greenish yellow, with dull red cheek; flesh yellow. productive. One of the finest late sorts. Last of September.

ELBERTA—A grand peach, of large size and handsome appearance; yellow flesh; freestone. Ripens about a week after Early Crawford. Very productive and heavier in the bud than Early Crawford. This is now recognized as the leading large yellow peach of its season either for home market or for foreign market, it being the only real good shipper of the large yellow sorts. It has but one apparent defect, viz.: the leaf is more subject to "curl leaf" than many sorts, which, however, can be prevented by spraying.

- EARLY CANADA**—This early peach is a native of Jordon, Ont., a chance seedling. Ripens one month before Crawford's Early. Good samples measure over seven inches in circumference; unusually hardy for a peach. Middle to end of July. Resembles Alexander very much.
- EARLY RIVERS**—Large, light straw color, with delicate pink cheek; flesh juicy and melting, with very rich flavor. About a week earlier than Hale's. Very hardy and very productive. One of the most regular bearers I know of, but is a clingstone. August.
- ENGLE'S MAMMOTH**—A fine large market variety, somewhat resembling Late Crawford, but far more productive. Yellow, with red cheek, small freestone, sweet and juicy. Early September.
- FOSTER**—Large; deep orange red, becoming very dark red on sunny side; flesh yellow, very rich and juicy, with sub-acid flavor. Very handsome. First of September.
- FITZGERALD**—Originated at Oakville, Ont. A very large, hardy yellow peach, freestone, ripening just close after Early Crawford, which it somewhat resembles. A valuable hardy sort and productive.
- GREENSBORO**—A large peach, color a beautiful creamy white, with a red cheek when exposed to the sun. Season same as Early Rivers, or nearly so. Very hardy and productive. One of the most valuable early peaches for market. Semi-cling.
- GARFIELD OR BRIGDON**—Large size; flesh yellow, very rich and juicy; color deep orange, becoming red on exposed side; very attractive; foliage large, green, glossy and peculiar. First of September. Season immediately after Early Crawford, which it resembles. Productive.
- GLOBE**—A rapid, vigorous grower and enormous bearer; fruit very large, globular in form; flesh firm, juicy, yellow, shaded with red crimson towards the pit or stone; quality good, very rich and luscious. Last of September.
- GOLDEN DROP**—Medium size; very handsome yellow peach with bright clear skin; quality choice. Season latter part of September, earlier than Smock. Very productive. A valuable peach.
- HYNE'S SURPRISE**—A handsome peach, white flesh, color similar to Hale's Early. Ripens at about same time. Productive, but is not nearly so subject to rot, and nearly a freestone.
- HONEST JOHN**—Medium to large; yellow; flesh yellow and of good quality. Tree vigorous and productive. Immediately before Early Crawford.
- HALE'S EARLY**—Fruit medium to large size; skin clear, smooth, white, delicately marbled with bright and dark red on the sunny side; flesh very melting, juicy and highly flavored. Middle of August. The last of the early peaches and usually sells well. Clingstone.
- HILL'S CHILI**—Medium size, dull yellow, tree very hardy, very productive; highly esteemed as a market fruit. Almost identical with Longhurst, if not the same. Last of September.
- JACQUE'S RARERIPE**—Very large, deep yellow; has a high reputation, as it is undoubtedly one of the very best large yellow peaches and coming in at a season when such peaches are in demand. Middle of September.
- KALAMAZOO**—Large golden yellow with crimson cheek. The thick yellow flesh is of good flavor and the pit is small. Strong grower. Season September.
- KLONDIKE**—Tree found in a private kitchen garden at St. Catharines grown from a chance seed. Fruit is large to very large—specimens from the tree in the season of '97, when it yielded fifteen twelve quart baskets, measured nine inches in circumference. Color white ground nearly overspread with dark purplish crimson; quality excellent, very juicy, rich and delicious; truly a magnificent eating peach. Freestone, and ripens a week before Yellow St. John or nearly two weeks before Early Crawford, and should take a front rank among early peaches.
- LEAMINGTON**—Medium to large, white with red cheek; quality excellent; juicy, sweet, white flesh. Ripens about a week to ten days before Early Crawford and is a freestone; very productive.
- LEMON FREE**—Medium to large; greenish yellow turning to yellow when fully ripe. A splendid shipper, very exempt from rot; quality good. Enormously productive; tree very hardy in the bud. A valuable sort.
- LONGHURST**—Originated in Ontario. Is extremely hardy, bearing annually large crops where most others will not bear at all. Yellow flesh, freestone, and on account of hardness of tree, period of ripening and general good qualities, makes it very valuable for market in localities where Crawfords are too tender. It is not as handsome as Early Crawford, Elberta or other large yellow peaches, nor quite as large, even if thinned as it should be on the tree. Ripens between the Late Crawford and Smock, or middle of September.
- MOUNTAIN ROSE**—Large; white with red cheek; flesh white, juicy, rich and excellent; one of the best early peaches, especially for home use. Should be in every collection. Last of August or just before Early Crawford.

- MILLIONAIRE**—A seedling found growing in a kitchen garden at St. Catharines. Size is extra large; quality cannot be surpassed; deep orange yellow flesh, small pit—that parts readily from the flesh; orange with deep crimson cheek, making it one of the most attractive peaches in existence, as well as excellent in every way. Ripens a week later than Early Crawford, at a time when large yellow peaches are in demand—consequently very profitable. Is very productive.
- NIAGARA**—A very large, fine yellow peach of recent introduction, said to be very hardy, of fine quality and handsome appearance and ripening. This peach has been grown and tested around Lockport, N. Y., and some of the best growers there claim this is one of the very best peaches ever introduced and are planting it largely. Ripens just after Early Crawford.
- NEW PROLIFIC**—Another fine large yellow peach, ripening soon after Early Crawford, and being very highly praised in Michigan, where it is said to be very hardy and productive and of fine quality and appearance.
- OCEANA**—A cross between Early Crawford and Hill's Chili. "The Peach", says the originator, "combines the best qualities of both." Hardy, deep rooter, with heavy foliage. Stands drought well. Fruit large, well colored and hangs well. Flesh deep yellow. Good keeper and shipper. Season in advance of Early Crawford.
- OLD MIXON FREE**—Large, pale yellow, with deep red cheek; tender, rich and good; one of the best white flesh peaches; very hardy and productive. First to middle of September.
- REEVE'S FAVORITE**—Very large, roundish, yellow with red cheek; flesh yellow, juicy, melting. Early part of September or just between Early and Late Crawfords, and so at a very good season for market.
- SMOCK**—Large, light orange yellow, with reddish cheek. Season end of September and first of October. Quality good; flesh solid, least subject to rot of most sorts; excellent keeper and shipper; tree very hardy and productive.
- STEWART**—Medium to large; a fine looking yellow peach of exquisite quality, very productive, bearing annually heavy crops in any reasonably good peach section.
- STEVEN'S RARERIPe**—Large, white, with light pink flush; quality extra fine. Very productive and free from disease. Commences and ripens immediately after Late Crawford and continues three or four weeks. Last of September and first of October.
- SMITHSON**—This may be under another name; it came here by chance. Very large size; yellow flesh, freestone. An excellent shipper and ripens late, just before Smock. I regard it as one of the most profitable peaches we have in this section.
- SMITH'S SUPERB**—Fine large late, well colored peach, and in size a trifle superior to Elberta; flesh yellow; pit small and very free. A valuable peach that comes in ten days ahead of Smock.
- TRIUMPH**—Medium size; dull red all over; flesh yellow; quality rather coarse, very early, almost as early as Alexander; semi-freestone; tree very hardy and exceedingly productive.
- TYHURST**—Medium size, nearly round, bright orange yellow, sometimes splashed and streaked on the sunny side with carmine. It is of the very best quality. The tree is of a low spreading habit, and branches have more of a willowy appearance than other peach trees, and is very hardy.
- WAGER**—Medium, yellow, more or less colored on the sunny side; juicy and of fine flavor; bears uniform and large crops, even when other sorts fail, but not of sufficiently handsome appearance. Just after Early Crawford.
- WHEATLAND**—39 peaches weighed 18 lbs. Was awarded first prize for size, quality and beauty at the New York State Fair. Ripens with Late Crawford, but larger than it. Yellow flesh and a freestone.
- WONDERFUL**—Large to very large, color golden yellow, overspread with carmine, flesh yellow, firm and highly flavored; very small pit, which parts readily. October.
- YELLOW ALBERGE**—(Rareripe). Large deep yellow freestone, very often dotted with red. Red cheek; juicy, melting, with a rich vinous flavor; tree hardy, vigorous and a good bearer. Few days ahead Elberta. Somewhat resembles Jacques.
- YELLOW ST. JOHN**—Medium to large, orange yellow, with a deep red cheek and with yellow flesh, quality good. Ripens just before Early Crawford. Very valuable on account of heavy bearing qualities and period of ripening, being the earliest first-rate yellow peach that is perfectly freestone.

PLUMS

THE PLUM, like the pear, attains its greatest perfection on our heavy soil, being then most free from disease. There is no country where plums thrive better than in Canada, especially near the various lakes and bays that are around the southern part.

When a plum is described as "very hardy" it will bear at Ottawa or similarly cold parts of Canada, with reasonable regularity. When described as "hardy" it will bear along the northern limit of successful plum culture. Other sorts will bear in the plum belt.

No family in Canada, even in the remotest northern sections, has any excuse for being without a bountiful supply of plums. They grow so easily on almost any soil, and there are varieties hardy enough to endure almost any degree of cold.

NOTE—Where period of ripening is definitely fixed, it is from experience on the Helderleigh Fruit Farms during the season of 1897. Other seasons might be earlier or later, but doubtless the comparison would be about the same between each other.

ABUNDANCE—A very thrifty and beautiful tree; early and profuse bearer of medium sized amber colored plums, turning on the sunny side to cherry red; flesh yellow, and of excellent quality. Japan origin. Ripens August 12th to 15th.

AMERICA—New hybrid. Large size, color glossy coral red, very handsome; flesh yellow and of excellent quality, ripens about the same time as Abundance, or a little earlier. Said to be an extra good shipper.

ANCASTER—New seedling now introduced for the first time. Large size, roundish, greenish yellow, quality excellent; season very early; very productive.

APPLE—So named because of its resemblance to an apple in form; very large, striped and mottled until fully ripe, when it turns to deep reddish purple. Quality extra good, nearly freestone; season early part of September.

ARCHDUKE—Very large, color blue, oblong, with heavy suture, quality only medium, very productive. A valuable market plum. Season about middle of September.

BURBANK—Of the many varieties introduced from Japan, the Burbank is one of the very best. The tree is universally vigorous, and has strong branches, and begins to bear, usually, when two years old. The skin of the fruit is thick, and is almost curculio-proof. An admirable shipping variety; ripens early; enormously productive. August 23rd to 27th. Tree hardy.

BEAUTY OF NAPLES—A variety of the highest excellence; size large, color greenish yellow; flesh juicy and fine flavored. Tree very strong grower and productive. September 7th to 10th.

BLEEKER'S GAGE—About medium; yellow, juicy and rich, productive. End of August.

BRADSHAW—Fruit very large, dark violet red, flesh yellowish green, juicy and pleasant; productive. One of the best. August 25th to 30th.

BRANDON—Originated at Winnipeg, Man. Fruit a beautiful light yellow color, with faint reddish dots on sunny side. A distinct sweet flavor. A hardy variety and recommended for cold sections.

CLIMAX—Very large, deep dark red; firm flesh, yellow, sweet and rich; quality first rate. Season earlier than Abundance. Regarded by Mr. Burbank as one of the most valuable of his numerous introductions.

CANADA ORLEANS—A very large plum of excellent quality, greenish ground with red cheek; very productive, tree hardy and a moderate grower. Early September.

CHABOT—Fruit roundish to medium heart shaped; color deep dull red, with numerous small yellow dots; skin somewhat thick; flesh yellow and juicy; firm and sweet. Quality good. Season late. Tree a strong grower and good bearer. One of the best Japanese varieties.

CZAR—Very large purple plum, a heavy cropper. A valuable plum for either home use or market. Vigorous grower. Ripens very early.

COLUMBIA—A magnificent large purple plum, ripens with Quackenboss, which it much resembles. A plum that sells at sight. Tree hardy. September 7th to 15th.

COE'S GOLDEN DROP—Very large and handsome, light yellow, firm, rather coarse quality, one of the most profitable late plums; enormously productive, tree not a very strong grower, requires rich soil. September 20th to 25th.

DIAMOND (Black)—Very large, oval, purple; does not rot readily; an excellent shipper and one of the very latest plums. Very productive. Season October.

DE SOTA (Americana Species)—Extremely hardy; medium size, yellow with red cheek, quality fair, very productive, tree vigorous. Season medium.

- DUANE'S PURPLE**—Large size, roundish and oblong, color a reddish purple, flesh rather coarse; bears extremely well. September 4th to 8th.
- EMERALD**—Color greenish yellow, form roundish, size medium to large; quality excellent; tree somewhat tender; season earliest, first week in August.
- EMPIRE**—Very large, roundish plum, greenish, with dull red cheek, ripens about a week after Lombard; exceedingly productive; tree a slow grower requiring rich soil and good culture.
- FIELD**—Tree strong grower, early and abundant bearer; fruit large, oval, reddish, ripens earlier than Bradshaw; is very valuable on account of large size and earliness. August 22nd to 25th.
- FELLENBERG (French or Italian Prune)**—A fine large late plum, oval; purple; flesh juicy and delicious; parts from the stone; fine for drying. Tree a moderate grower, productive. September 20th to 25th.
- GENERAL HAND**—Very large, roundish, golden yellow, quality coarse; only moderate bearer, tree wonderfully vigorous. Fruit brings high price on account of very large size; middle of September.
- GUEII**—Fruit very large, deep, bluish purple, covered with thick bloom; flesh yellowish green, somewhat coarse, great cropper and a very early bearer; tree a very rapid and strong grower. September 1st to 5th.
- GERMAN PRUNE**—A large, long, oval variety, much esteemed for drying; color dark purple, very agreeable flavor. It does not rot readily; tree a moderate grower only. September 20th to 25th.
- GRAND DUKE**—Color of Bradshaw; fruit very large, of fine quality; very productive; one of the best late varieties for either home use or market. Tree a moderate grower. September 12th to 20th.
- GLASS SEEDLING**—A very fine, large, purple plum, resembling, if not identical with Quackenboss; hardy. Tree strong and thrifty, does not begin to bear early, but bears heavy crops of plums that fetch the top price when it does commence. September 8th to 12th.
- HULING'S SUPERB**—Very large and handsome, yellowish green, juicy, rich and good. End of August.
- HAWKEYE (Americana Species)**—Very hardy and one of the best of this class, fruit medium size, color red, quality fair; very productive. Season medium to late.
- IMPERIAL PEACH (Japan)**—Resembles Abundance, also same season. Loads exceedingly heavy, like Burbank, at a very early age.
- IMPERIAL GAGE (Flushing Gage, Prince's Imperial Gage)**—Fruit large, oval, skin pale green, flesh juicy, sweet, rich and excellent. Tree very vigorous and annually productive. September 1st to 5th.
- JEFFERSON**—A fine variety; yellow with a red cheek; flesh orange-colored, juicy and August.
- JOHN A.**—This is a cross between a local seedling, Evelyn, and Fellemburg, originated by the late Richard Trotter, of Owen Sound. It is a rapid, strong grower with heavy foliage, which it retains well. The fruit is a good keeper and shipper. Season very late. The following is the description as given by the horticulturist at the Experimental Farm, Ottawa: "Large, oblong or egg-shaped, slightly flattened laterally, tapering towards the stem; color dark bronze red with brighter flush near the calyx, bloom heavy purplish blue, suture quite deeply marked, cavity one-sided with swollen lip on side opposite the suture, stem one and a quarter inches long, stout, flesh greenish yellow, firm and juicy, a pleasant sub-acid, pit large and semi-clinging, the prune characteristics are strongly marked."
- KELSEY (Japan)**—A magnificent large yellow plum of excellent quality, far ahead, both in size and quality, of most Japan plums. Season last of August, but unfortunately too tender except for the best peach sections; productive there.
- KINGSTON**—Very large purple plum and very productive, oval in form, quality only fair; season latter part of September. This plum, on account of productiveness, handsome appearance, early bearing qualities and large size, will be a very profitable variety to plant for market.
- LA HERMOSA**—A seedling from Fellemburg. Resembles its parent in shape and flavor, ripens at the same time or in this locality the latter part of September, is a little larger even than Fellemburg, color red, is a heavy and regular bearer, should be a great acquisition. This plum was originated by the late Richard Trotter, of Owen Sound, who originated several new and valuable fruits.
- LATCHFORD**—Grown at Ottawa, Ont., and supposed by F. R. Latchford, Esq., K. C., to be a seedling planted out by Mr. Chapman 25 years ago. Exceedingly hardy, blue plum, never affected by frost at Ottawa. Very productive.
- LOMBARD (Bleeker's Scarlet)**—Medium, round, oval, violet red, juicy, pleasant and good; extremely productive, a valuable market variety, hardy, and one of the most popular. September 9th to 15th.

- LOWRY'S GAGE**—A chance seedling, was found growing in a neglected fence corner at St. David's, Ont., and the fruit ripening every year very early—several days in advance even of Bradshaw, and producing very heavy crops every year, was thought worth introducing. It is now offered for sale with a hope that it may prove remunerative. Color yellow, size medium, quality first-rate.
- LINCOLN**—A seedling of Green Gage, very large, reddish purple in color on a green ground. Season medium. My trees ten years old have not proved productive, so far.
- MAJOR**—Originated at Winnipeg, Man. Exceptionally hardy and early variety; fruit deep red; skin sweet and juicy; stone medium. Valuable variety for the Northwest Provinces.
- MYLES**—Originated in East Hamilton. Fruit medium to large; yellowish green; round in shape; short stem; solid flesh; skin rather tough, making it a good shipper and keeper. Ripens early with Abundance.
- MOORE'S ARCTIC**—Fruit grows in large clusters, exceedingly productive, dark purple; flavor very fine, both for preserving and dessert. A long keeper and of medium size. September 2nd to 7th. Tree hardy.
- MONARCH**—Fruit very large, roundish oval, dark purplish blue, freestone, of excellent quality; tree robust and an abundant bearer—tree three years from the graft bearing large crops of fine plums. This plum is very valuable, and is one of the best late plums now grown. September 28th to October 2nd.
- MONROE**—Medium, excellent, vigorous grower and abundant bearer.
- MONROE EGG**—A magnificent large greenish yellow plum of good quality, loads very heavy and is one of the most valuable plums for either home use or market.
- McLAUGHLIN**—Large, yellow, with fine pink blush, juicy, luscious, productive; nearly or quite equal to the Green Gage in quality. Early September.
- MILTON (Americana Species)**—Large, dark red, flesh firm, good quality for an Americana. Ripens very early. Very hardy, very vigorous and very productive.
- NIAGARA**—Very large, reddish purple, entirely covered with gray bloom; flesh deep greenish yellow, very nearly identical with Bradshaw. August 28th to September 2nd.
- OGON**—Fruit large, round, bright golden yellow, with faint bloom; flesh firm, very coarse in quality; vigorous and hardy. Japan origin. August 15th to 20th.
- OCTOBER PURPLE (Japan)**—Large, round, purple, of good quality; hardy, very productive. Season very late.
- PRINCE ENGLEBERT**—Very large and long; deep purple; rich and excellent. Tree very vigorous, productive. One of the best. September 4th to 9th.
- POND'S SEEDLING**—A magnificent large English plum; light red, changing to violet; quality fair to good; abundant bearer. One of the most attractive in cultivation. September 11th to 17th.
- PURPLE EGG (Hudson River Purple Egg)**—Large size, reddish purple with nice bloom; excellent and regular bearer. One of the least liable of all plums to rot, consequently one of the very best shippers. September 9th to 15th.
- PETER'S YELLOW GAGE**—Fruit medium, nearly oval; skin pale yellow, sometimes with crimson dots in the sun, and a thin light bloom; flesh yellow and of good quality; tree moderately vigorous and very productive; one of the very best plums. Season September 5th to 10th.
- PRINCE'S YELLOW GAGE**—Medium size; deep yellow; flesh yellow, rich, melting and sweet; productive. August.
- PRINCE OF WALES**—Round, mottled, reddish purple on cream colored ground, quality excellent; very productive. Season September.
- QUACKENBOSS**—Large, oblong, oval, deep purple, a little coarse, sprightly and juicy. Adheres slightly to the stone; productive. Valuable for market. Commences to bear late. Tree grows to be very large size and is very profitable variety after it begins to bear. Hardy. September 8th to 15th.
- RED JUNE**—This is one of the most promising of the newer Japans. A vigorous, upright tree like Abundance, also like it being very productive; fruit medium; deep vermilion red with fine bloom, hence very attractive; quality very good, flesh yellow, half cling, pit small. Ripens early, just before Abundance.
- REINE CLAUDE DE BAVAY**—Large, nearly round, greenish yellow; juicy, melting and excellent; enormous bearer. Rightly regarded as one of the most profitable plums for market, as well as one of the very best for home use. Tree is only a moderate grower in the nursery, but seems to grow better in the orchard. Season September 20th to 30th.
- RAYNES**—Fruit medium oval and long; color dark reddish purple with small dots, numerous but indistinct; thin skin and tender; flesh yellowish green, firm and juicy. Stone medium and free. Quality medium. Season middle September. Heavy bearer and good shipper.

- REINE CLAUDE VIOLET**—A richly flavored Gage of a purple color, bearing heavy crops of fruit in September.
- SHROPSHIRE DAMSON**—Plum of fine quality, as free from the attack of the curculio as the common Damson, and of same color. Flesh is amber color, juicy and sprightly. Size small. Very free from rot, very productive; valuable. Tree hardy. September 25th to 30th.
- SHIPPER'S PRIDE**—Very large, roundish, reddish blue plum, and productive. Tree a very upright grower. September 8th to 12th.
- SIMONI (Apricot Plum)**—The tree somewhat resembles the peach; fruit a brick red color, flat, flesh apricot yellow, firm, with a peculiar aromatic flavor, hardy and valuable as an ornamental fruit tree, but not profitable for market. August 12th to 20th.
- SMITH'S ORLEANS**—Large size, reddish purple on green ground, flesh firm and juicy, with a rich, fine flavor; very productive. A very profitable and valuable sort, whether for home use or market.
- STANTON**—Originated in New York State; tree is symmetrical grower, fruit medium to large, nearly round, deep purple, with blue bloom; quality best, ripens latest of all and keeps extra well. Begins to bear very late. Season October.
- SPAULDING**—Tree rank grower, enormously productive, more exempt from curculio than most plums; firm, sweet and rich in quality; freestone; color yellowish green. One of the most desirable sorts. September 1st.
- SAUNDERS**—A plum of Canadian origin, introduced at Fonthill. Size above medium, color bright golden yellow, quality good, bears well at an early age and regularly—has a peculiarity of bearing in the tree and not on the ends of the branches, which is a good trait; tree a poor scraggy grower, requires rich soil. Season very early—August 20th to 25th.
- SATSUMA**—A Japan plum of very large size, not heavy bearer as most Japans are; flesh is blood red, color of skin reddish, with yellow ground. Quality very good to best. September.
- STODDARD (Americana Species)**—Fruit oblique oval, color pinkish red over yellow, and covered with many small white dots; skin thick, flesh yellow; quality good for an Americana; season medium early.
- SHIRO**—(Japan)—Large, roundish, yellow, handsome, juicy, rich, quality good, skin tough so a good shipper. Season early, about same time as Abundance.
- VICTORIA (Sharp's Emperor)**—One of the finest plums in cultivation; of large size; fine quality; skin light yellow, marbled, spotted, and shaded with light lilac and crimson; rots easily. Tree a free grower and most abundant bearer. Middle of September.
- WARNER'S LATE (Middleburgh)**—Fruit large; skin red, with a blue bloom; very fine grained. Tree vigorous and productive. Ripens last of September. Valuable for market.
- WEAVER (Americana Species)**—Fruit medium, color red, very prolific, constant and regular bearer and of fair quality. The tree is very hardy. August.
- WASHINGTON**—Very large, when ripe clear yellow, marked with red; flesh firm, very juicy and excellent; very popular and very productive. August 30th to September 5th.
- WILLARD (Japan)**—Quality poor, color dark red, size medium; productive; when ripe drops easily from the tree. Season very early—about a week before Abundance, or August 7th to 10th. Not to be recommended very highly, however.
- WICKSON**—Another of the new Japanese sorts. Tree upright and vigorous; fruit of very large size, often 8 or 9 inches round; when ripe a deep crimson color when fully exposed to the sun, yellow over the balance of the plum; quality excellent; blooms very early and so may more likely, even than the other Japans, be caught occasionally in some sections by late spring frosts. Season follows Burbank.
- WOLF (Americana Species)**—Very hardy and a valuable plum for the extreme north; rather above medium size, form round oval, color red, quality below medium; very productive. Season medium.
- YELLOW EGG, OR YELLOW MAGNUM BONUM**—Very large, egg shaped, excellent for cooking, good and productive. One of the most profitable market plums on account of large size and productiveness. Hardy. September 10th to 15th.

CHERRIES

CHERRY TREES will thrive in almost every part of Canada on suitable soil. The soil must be dry; it might be light sand or clay loam, or any soil between these; the only stipulation is dryness. Cherry trees will not thrive on flat or wet land. The Hearts and Bigarreus, commonly called English cherries, are strong, rampant growers, and should be set 20 to 25 feet apart. They are not hardy enough except for southern and favorable parts of middle Ontario and the favorable parts of the Maritime Provinces and British Columbia. They bear enormous crops, frequently as much as 300 quarts from single trees, and in some cases much more, and are always in demand at good prices. At present there is a large profit in a cherry orchard in full bearing.

The Morello cherries thrive over a much wider area, some of the varieties being hardy enough for all sections of settled Eastern Canada, and these are equally profitable with the Hearts and Bigarreus in most cases. Red cherries of the Morello class are wanted by every householder in the land, hence the demand is enormous and never satisfied.

Black knot attacks the Morello, but does not attack the others. Black knot, however, is no longer any bugbear to fruit growers. It is only necessary to examine the trees two or three times a year and cut off and burn any knots found when in the green state to prevent it spreading further. It can only spread from ripe spores or black knots.

Sour cherries or Morellos should be planted from 14 to 20 feet apart, according to varieties and soil, and if the ground is rich so much the better. Sour cherries also require dry ground, but are not quite so fastidious in that respect. The Morellos have slender spreading branches.

The third class into which cherries are usually divided is the Duke. These grow very upright and stout, but do not require the room necessary for Hearts and Bigarreus. The fruit is semi-acid. The tree is subject to black knot, though perhaps not quite so subject to it as the Morellos. The Dukes too, bear heavy crops and are harder than Hearts or Bigarreus; in fact, the Dukes occupy a place midway between the two other classes, as near as can be, in many respects.

HEARTS AND BIGARREUS—Of these Napoleon Bigarreau is my choice for first place among the light colored, and Black Tartarian, Windsor, and Schmidt's Bigarreau among the blacks. Dates of ripening are those of 1897 at Helderleigh and may differ other seasons, but are given for comparison and are exact when so stated.

HEART AND BIGARREAU CHERRIES.

- ✓ **BLACK OXHEART**—An extremely large, deep black cherry; very productive. tree a strong grower; quality first rate. Ripens late, about July 20th to 25th.
- ✓ **BLACK EAGLE**—Large black, very tender, juicy, rich and highly flavored. July.
- ✓ **BLACK HEART**—A very old variety. Fruit medium size, heart shaped, irregular; skin glossy, deep black; flesh tender, juicy, rich, sweet. Tree a rather rapid grower, hardy and productive. Early in July.
- ✓ **BLACK TARTARIAN**—Very large, bright purplish black; half tender, juicy, very rich, excellent flavor, productive. July 1st to 10th.
- ✓ **COE'S TRANSPARENT**—Medium size, pale amber, red in the sun; tender, juicy, rich, handsome, one of the best of its season, productive. End of June.
- ✓ **DOWNER'S LATE RED**—Medium size, light red, tender, juicy, semi-acid, a cooking rather than an eating cherry; productive. July 15th to 20th.
- ✓ **ELTON**—Large, fine flavor, pale yellow, light red next the sun. Tree extra strong grower and very productive. End of June.
- ✓ **ELKHORN (Tradescant's Black Heart)**—Large, black, of good quality, extra solid and firm; productive. July 20th to 25th.
- ✓ **EARLY PURPLE**—Medium size, purple, tender, juicy, sweet. Middle of June.
- ✓ **GOV. WOOD**—One of the best cherries; very large, light red, juicy, rich and delicious. Tree healthy and great bearer. End of June.
- ✓ **IDA**—Medium to large, pale yellow, nearly covered with light red. juicy, and of good quality; abundant and regular bearer. Ripe latter part of June.
- ✓ **KNIGHT'S EARLY**—Large, black; tender, juicy, rich; productive. Ripe about the end of June.
- ✓ **MEZZEL**—A French variety; very large, dark brown, firm; tree a free grower, spreading, irregular. Middle of July.

- NAPOLEON BIGARREAU**—Very large, pale yellow or red, very firm, juicy and sweet; productive. One of the very best. July 10th to 15th.
- PICKERING**—Large, bright red, very firm, not very juicy, flesh parts readily from the pit; very hardy for a sweet cherry.
- ROCKPORT BIGARREAU**—A firm, large, light colored cherry with red cheek. Ripens at the same time as Black Tartarian.
- SCHMIDT'S BIGARREAU**—A most valuable cherry; fruit of an immense size, of a rich, deep brown; flesh dark, tender, very juicy, with a fine flavor; bears abundantly and makes a most noble dish for the table. July 15th to 20th.
- WINDSOR**—Originated at Windsor, Ont. A very large, roundish cherry, of brown color; unfortunately seems more subject to rot than many others. Tree exceedingly regular and productive cropper. Season July 15th to 20th.
- YELLOW SPANISH**—Large, pale yellow, with red cheek, firm, juicy and excellent, one of the best light colored cherries; productive. July 1st to 5th.

DUKES AND MORELLOS.

- BELLE MAGNIFIQUE**—A magnificent large red, late cherry of the Duke class; fine for cooking and good for the table when fully ripe; rather acid; tender and juicy; very productive; tree a moderate grower. Ripe about latter part of July, after Montmorency is gone.
- CALIFORNIA ADVANCE**—A fine Duke cherry, similar in both season and in character to the Late Duke. Am inclined to think the two identical.
- DOUBLE NATTE**—A very hardy Morello; fruit large as Early Richmond; bright red. Extremely valuable for the north, being one of the few really hardy cherries of good size.
- DYEHOUSE**—Partakes of both the Duke and Morello in wood and fruit. A very early and sure bearer, ripens a week before Early Richmond, of better quality and productive. Last of June.
- ENGLISH MORELLO**—Medium size, blackish red, rich, acid, juicy and good; long stem; very productive. Last of July and early August.
- EARLY RICHMOND (Kentish Virginian May)**—Medium size, bright red, melting, juicy, sprightly, acid flavor. This is one of the most valuable and popular of the acid cherries, is unsurpassed for cooking purposes and is exceedingly productive. Last of June and first of July.
- EMPRESS EUGENIE**—Large, dark red; productive; tree robust and hardy, belongs to Duke class. Ripe about first of July.
- FOUCHE MORELLO**—Another of the very hardy, very productive, bright red cherries, of about the same size as Early Richmond; will altogether supersede such sorts as Ostheim and Vladimir, the fruit of which is of smaller size.
- LATE DUKE**—Large, light red, late and fine. July.
- LIEB**—A new Morello from Illinois; resembles Early Richmond, but a little later. Valued in the north for size and hardness.
- LARGE MONTMORENCY (Morello type)**—A large red, acid cherry, larger than Early Richmond and fully ten days later; very productive, and without doubt the most valuable of all sour cherries; tree strong grower.
- LOUIS PHILIPPE**—An excellent hardy variety; very vigorous and productive; large size; rich, dark red; flesh red, with mild, sub-acid flavor. Season middle to end of July.
- MAY DUKE**—Large, dark red, juicy and rich, an excellent old variety; productive. End of June.
- OLIVET**—Of French origin. Large, globular, very shining, deep red sort, flesh red, tender, rich and vigorous, very sweet, sub-acid flavor. Last of June.
- OREL NO. 24**—Tree a medium grower, healthy, hardy, bears early, quite productive. Fruit about medium size, dark in color, nearly black when ripe, stem about medium length. Flavor rich, spicy, pleasant. One of the very best for canning.
- OREL NO. 25**—One of the later importations from Russia; tested at the Experimental Farm, Ottawa, and found to be both hardy and productive, and fruit of about the same size as Early Richmond. Morello type.
- OSTHEIM**—A hardy cherry from Russia. It has been tested in the severest winters of Minnesota and has been found perfectly hardy; Fruit small to medium size, roundish, ovate; skin red; dark at maturity; stalk long; flesh liver-colored, tender, juicy, almost sweet. Ripe latter part of July.
- REINE HORTENSE**—Very fine; large, bright red, juicy and delicious; productive. July.
- ROYAL DUKE**—One of the best of the Duke class; ripens after May Duke.
- VLADIMIR**—Extremely hardy Russian. Tree much smaller than other sorts, fruit of fair size and nearly black. Valuable on account of extreme hardness.
- WRAGG**—Another hardy cherry of recent introduction from Russia. Later than Vladimir, and like it, valuable for extreme northern sections. Ripe end of July, and said to be same as English Morello, which is certainly very much resembles.
- WEIR**—Another new Morello from Russia; of good size; bright red color; very hardy and productive.

QUINCES

THE QUINCE is attracting attention as a market fruit. The tree is hardy and compact in growth, requires but little space, is productive, gives regular crops, and comes early into bearing. The fruit is much sought after for canning for winter use. When put up in the proportion of about one quart of quinces to four of other fruit, it imparts a most delicious flavor. It flourishes in any good garden soil, which should be kept mellow and well enriched. Prune off all the dead and surplus branches, and thin out the fruit if bearing too freely.

APPLE OR ORANGE—Large, roundish, bright golden color, cooks tender, and is of excellent flavor. Valuable for preserving or flavoring; very productive; the most popular and extensively cultivated variety. October.

BOURGEAT—A large, fine new quince. Season soon after Orange. Keeps well on into winter.

CHAMPION—A variety originating in Connecticut; tree is a prolific and constant bearer, fruit averaging larger than the Orange, more oval in shape, quality equally fine and a long keeper, rather late, except for the earliest sections. October and November.

MEECHE'S PROLIFIC—A free grower, very productive, fruit of good quality, very large and handsome, not quite so hardy as Orange.

REA'S MAMMOTH—A very large quince and also productive. Tree a very strong grower. Regarded by many as the most desirable quince to plant.

APRICOTS

EUROPEAN.

THE APRICOT is a cross between the plum and the peach, and resembles both in some particulars. The fruit is liable to the attacks of curculio, like the plum, and the tree is subject to the yellows, like the peach. In fact, being attacked by the enemies of these two fruits it is not planted for profit to any extent. It will scarcely thrive outside the peach belt.

HARRIS—This is planted now more largely than any other, as it seems to yield more regular crops, and is of good quality.

MONTGAMET—The latest real acquisition that has been well tested, is of fairly good size and appearance; good quality and ripens early.

MOOR PARK—One of the largest, orange color, with red cheek; very productive; rich flavor. Early August.

SMITH'S EARLY—One of the very early sorts that has lately been introduced, and claimed to be superior to most others.

RUSSIAN.

THESE are quite distinct from the European varieties. Their leading characteristics are extreme hardiness, having withstood 30 degrees below zero without injury; early bearing, productiveness, and freedom from insect ravages and diseases. The following are the best that have been thoroughly tested.

ALEXANDER—Very hardy, an immense bearer, fruit large, yellow, flecked with red, very beautiful, sweet and delicious. July.

ALEXIS—Very hardy, an abundant bearer, yellow, with red cheek, large to very large, slightly acid, rich and luscious. July.

CATHERINE—Very hardy, vigorous and productive, medium size, yellow, mild, sub-acid, good. July.

GIBB—Tree hardy, grows symmetrical, productive, fruit medium, yellowish, sub-acid, juicy and rich, best early variety, ripening soon after strawberries; a great acquisition. Last of June.

J. L. BUDD—Tree a strong grower and profuse bearer, fruit large, white, with red cheek; sweet, juicy, with a sweet kernel, as fine flavored as an almond, the best late variety and a decided acquisition. August.

NICHOLAS—Tree hardy and prolific, fruit medium to large, white, sweet and melting; a handsome and valuable variety. August.

SHENSE—Originated in the Western States; tree is a big, strong grower, and fruit of a very good size it is said.

GRAPES

NEARLY every section of Ontario can produce grapes of good quality, but more particularly the counties bordering on the lakes. We have now grand varieties ripening early enough to suit the northern counties, and hardy enough to stand 30 degrees below zero when the wood is well ripened. However, any difficulty about the wood freezing in the winter can easily be overcome by laying down the vines in winter and covering with earth. The soil best suited for a vigorous and at the same time healthy vine is not deep sand, as was at one time supposed, but on the contrary rather heavy clay loam that is moderately fertile and deep. A strong, deep soil well drained, such as would produce a heavy crop of winter wheat, will produce the best results. The vine does not require heavy dressings of manure on suitable soil; a moderate dressing of cow manure is best when the vines begin to show a lack of vigor. Ashes are beneficial on most soils, but especially on light leachy soils. Vines, when planted, should have the top removed down to two buds and the following spring down to three buds, and the third spring to one cane, from 2 to 4 feet long, according to the vigor of the vine and the closeness of the buds, say from 6 to 10 buds. This cane should be tied upright to a trellis, and, when the shoots start out, all below a foot from the ground rubbed off, and the stock to this height always kept clean of suckers as fast as they start. The following spring three canes can be left, each having from 4 to 8 buds, according to the vigor of the vine. These are tied in fan shape on the trellis. The fifth spring the vine should be strong enough to bear a full crop and 5 to 8 canes can be left, having from 4 to 8 buds on each, and this quantity each succeeding year, always bearing mind the more buds the more bunches, and that a full grown vine should not bear over 20 lbs. of grapes under ordinary circumstances. Each bud on a thrifty Concord should produce a half pound of grapes on an average. I would recommend the following varieties for family use for a good grape section:..Moore's Early, Worden, Concord, Roger 4 (Wilder), Campbell's Early, Brighton, Lindley, Agawam, Vergennes, Niagara, Moore's Diamond; for northern sections, where only early sorts will ripen, Moore's Early, Worden, Campbell's Early, Brighton, Lindley and Moore's Diamond.

BRIGHTON—A cross between the Concord and Diana Hamburg. Bunches large, berries of medium size, dark red; flesh sweet, tender and of the highest quality. Ripens earlier than the Delaware.

CAMPBELL'S EARLY—A strong, vigorous grower, with thick leathery foliage, and a heavy cropper of very large bunches of black grapes—ripening very early and of good quality; skin tough but not too thick; a splendid shipper.

CATAWBA—Bunches large and loose; berries large, of a coppery red color, becoming purplish when well ripened; ripens with Isabella; requires the most favorable soils and situations, good culture and warm seasons to mature perfectly in Ontario.

CHAMPION (Tallman)—This variety is valued chiefly for its earliness, being a number of days earlier than the Hartford. It is very productive, but of rather poor quality.

CONCORD—A popular variety that succeeds under a greater variety of circumstances than perhaps any other grape; universally healthy, vigorous and productive; flesh somewhat buttery, moderately juicy and sweet. Bunch large, nearly black, with bloom—early.

DELAWARE—One of the finest grapes. Bunches small, compact, shouldered; berries rather small, round; skin thin, light red; flesh very juicy, without any hard pulp, with an exceedingly sweet, spicy and delicious flavor. Vines moderately vigorous, very hardy and productive.

EATON—Black; bunch and berry of very largest size; not quite so early or sweet as its parent, the Concord, but less foxy; pleasant, juicy, with tender pulp; vine very vigorous, healthy and productive.

MOYER—Red; originated in Canada; vine hardy and healthy; bunches and berries a little larger than Delaware; ripens very early—with the earliest—and hangs well on the vine; resembles Delaware in appearance; sweet as soon as colored; skin thin but tough, pulp tender, rich and juicy. Not usually productive.

MOORE'S DIAMOND—Vine a vigorous grower, with dark healthy foliage, entirely free from mildew. A prolific bearer; bunches large, handsome and compact, slightly shouldered; color delicate, greenish white, with rich, yellow tinge when fully ripe. Skin smooth and free from specks; pulp tender, juicy and nearly transparent, with very few seeds. Berry about the size of Concord, rich, sprightly and sweet. Ripens about one week before Concord.

- MOORE'S EARLY**—A seedling of Concord, ten days earlier; vine very hardy, foliage strong and hardy, like its parent. Very large bunch and berries, quality first rate. One of the best very early black grapes.
- NIAGARA**—Originated in Lockport, N. Y., in 1868, and is a cross between the Concord and Cassidy, first fruiting in 1872. It has since regularly borne large crops of fine fruit. The vine is hardy and a remarkably strong grower; the leaves are thick, leathery and a dark glossy green. Very large bunches, uniform and very compact; berries are as large or larger than Concord, and skin thin but tough; quality good, with little pulp, melting and sweet; ripens with the Concord.
- POCKLINGTON**—Is a seedling of the Concord. Vine thoroughly hardy, both in wood and foliage. Strong grower; never mildews; is a light golden yellow, clear, juicy and sweet to the centre, with little or no pulp; bunch very large, sometimes shouldered; berries round, large and thickly set.
- VERGENNES**—A chance seedling found at Vergennes, Vt. Free from mildew, very productive, clusters large, berries large, holding firmly to the stems, color light amber, flesh meaty and tender, ripens with Concord, and is an excellent late keeper.
- WINCHELL (Early Vermont) (Green Mountain Grape)**—A new very early white grape of excellent quality, and ripens the earliest of any grape of merit; vine not a vigorous grower.
- WYOMING RED**—A very early red grape, a good grower and healthy; bunch and berry small to medium, sweet, but a little foxy.
- WORDEN**—A seedling of Concord, which it greatly resembles in appearance, but the berries are larger. The fruit is better flavored and ripens several days earlier; a magnificent grape—fruit, vine and foliage. For home use for all sections the Worden is the King of Grapes.

ROGERS' HYBRIDS.

There are a great many of these most excellent varieties, combining great productiveness in most with good quality, large size, handsome appearance, excellent keeping qualities. The only weak feature in these hybrids is that the leaves are subject in wet weather to a species of mildew which causes them to drop off, and when this occurs the grapes do not ripen up satisfactorily. Remedies for this trouble, which only occurs in rainy seasons, are now being tried, which are successful. A description here would occupy too much space. The following are some of the most valuable varieties:

- AGAWAM (No. 15)**—A large red grape, ripening a little late for any but good grape sections, a heavy cropper and valuable as a choice late table grape. An excellent keeper.
- BARRY (No. 43)**—Very much resembles Herbert, ripens with Concord.
- HERBERT (No. 44)**—Black, berry and bunch large, shouldered, one of the best, earlier than Concord.
- LINDLEY (No. 9)**—One of the best red grapes for either home use or market, cluster rather loose, requires long pruning and soil not too rich in humus; ripens a week before Concord.
- SALEM (No. 53)**—Very choice red grape, productive, excellent keeper. If picked as soon as ripe and placed in cool dry atmosphere will keep in excellent order until Christmas.
- WILDER (No. 4)**—Black, early, sweet, productive, one of the best, but must not be allowed to overbear, which is its tendency, or it is ruined for several years.

RASPBERRIES

AS it is difficult to eradicate clover or grass from Red Raspberries, I find the best preparation of the ground is a summer fallow, manured as for a crop of fall wheat and ridged up in the fall, ridges six feet apart. The ground must be well drained for raspberries. In the spring, harrow and cultivate centre of the ridges, only as fast as planted so ground will not get dry, stretch out roots both ways in the furrows, plant about six inches below the level of the land, allowing for ridges. Put plants about 18 inches apart in the rows. Pack fine moist earth about young growth at two feet high. Second year cultivate as before, allow a cane every six inches in the row, cut the rest off same as weeds. Another plan, producing berries of larger size and with less labor, is to plant five feet apart each way and cultivate both ways permanently, leaving about four to six shoots in a hill. Where large plots are set I think this the better system, as it involves less hand labor and produces a better grade of fruit, and I believe more of it. The soil for raspberries is sandy loam.

CUTHBERT—Fairly hardy. The canes are tall and vigorous, and enormously productive. Berries very large, conical; rich crimson, very handsome, and so firm that they can be shipped hundreds of miles by rail without injury. Flavor rich, luscious, best, commences to ripen moderately early, and holds out until all others are gone.

COLUMBIAN—This is an enormously productive, very large purple berry, resembling the Schaffer but firmer; canes lighter red; a very rampant stout grower, canes often an inch in thickness and on good soil would easily grow eight feet in a season. A valuable variety for home use or for canning factories.

GOLDEN QUEEN—Size equal to Cuthbert; productive; a very strong grower and hardy enough even for northern latitudes, having stood uninjured when the Cuthbert suffered. The desire for a yellow raspberry of high quality, combined with vigorous growth and perfect hardiness, is believed to be fully met in this variety.

LOUDEN—It is very hardy, and one of the best red raspberries in existence. Size very large, equal to the Cuthbert; firm; ripens about same time and is very productive.

MARLBORO—Large size, light crimson color; fair quality and firm. Plant stout and short, very productive. The first berries ripen early, but the entire crop covers a period of four or five weeks in ripening.

SHAFFER RASPBERRY—This is a most productive raspberry. The quality is the very best, and it will make nearly half as many again pounds of preserved or canned fruit as Cuthbert from the same number of boxes, having so small a cavity. It is an extremely vigorous grower, and should be planted seven or eight feet apart unless wired up. The canes, if allowed to grow on good land, will reach a height of eight feet.

HERBERT RASPBERRY.

"The Herbert is the best of 30 seedling Raspberries fruited during the last 14 years, and after careful comparison with all the leading varieties, I can confidently say that it is much superior to any of them. In hardiness, it easily takes first place, standing a lower temperature than any other kind. The cane is very strong and vigorous, slightly prickly, leaves large and healthy, and has never been affected by Anthracnose, or disease of any kind. Fruit bright red, somewhat oblong, the largest of all red Raspberries, larger than Cuthbert or Loudon. Flavor very sweet and juicy, the very best for table use. Enormously productive, will bear twice the crop of either Cuthbert or Loudon, under the same conditions. Season 5 or 6 days before Cuthbert. Holds its size well to end of season."

The following is reported in Bulletin No. 56, Experimental Farm, Ottawa, dated April 7th, 1907: "Herbert is a strong grower, hardy, and very productive. Fruit large to very large, bright to rather deep red; drupes, medium size, not crumbling and moderately firm; sweet and sub-acid, sprightly, juicy and of good flavor; quality very good. Season begins a few days before Cuthbert. The best red Raspberry tested here. It has all the best points required in a berry for local market, being hardy, vigorous, productive, with fruit of large size, good color and very good quality. If firm enough for distant shipment it may displace Cuthbert." The highest individual yield in 1904 at the Central Experimental Farm, Ottawa, was from Herbert, which produced 50 lbs. 11 oz. of fruit from 2 rows each 18 feet in length, which at the rate of 10,234 lbs. per acre, or 319 bushels and 26 lbs.

HERBERT—A seedling introduced by R. B. Whyte, Ottawa. Strong grower, hardy and very productive. Fruit large to very large, bright deep red; berries moderately firm, sweet and sub-acid, juicy and of good flavor; quality very good. Season before Cuthbert. Has all good qualities of a first-class berry, being hardy, vigorous and productive, with fruit of good size and color, and extra good quality.

BLACK RASPBERRIES

PREPARE the ground same as for red raspberries. In the spring harrow and cultivate, mark crosswise with corn marker three feet apart, run a single furrow down the centre of the land, dig holes more than large enough to spread out the roots and six inches deep, fill up and pack with moist earth. Cultivate both ways as for corn, ridge up as soon as crop is gathered.

CUMBERLAND—Black, very large; very similar to Gregg in quality and firmness. In hardiness and productiveness it is unexcelled; one of the best mid-season market varieties.

CONRATH—A very early, very hardy sort; firm and good shipper; very vigorous grower and exceedingly productive. berry of large size and handsome appearance; a decided acquisition to the list of early hardy black caps.

GREGG—Fruit very large, good quality, very meaty and firm, with heavy bloom; canes of very strong growth, needs rich soil and plenty of fertilizer to do well; very late, extending the season well into blackberry time. Not quite as hardy as we could wish.

HILBORN—Fruit jet black, large as Gregg and better flavor, strong grower, perfectly hardy, few thorns, very productive.

JAPANESE RASPBERRY (Wineberry)—Ornamental both in fruit and plant; canes covered with purplish red hairs; leaves dark green, silvery grey beneath; fruit in large clusters.

KANSAS—A very heavy stocky grower of the Gregg type; exceedingly productive of very large black berries, fine grained, solid and showy, medium early. One of the very best.

OHIO—An old variety of very vigorous, upright growth; very productive; berry large.

OLDER—A very large jet black berry, extremely hardy and vigorous, very productive; season medium early. This is regarded as one of the very best black caps now being offered.

PALMER—A very early, very productive, and very hardy sort, ripening its crop up at two or three pickings early, when the price is best; good medium size, good black color, of good quality.

SOUHEGAN OR TYLER—These varieties are so near alike that one description will answer for both. Ripens its entire crop within a very short period, a desirable feature when it precedes second early sorts, canes vigorous, strong and hardy, with a foliage healthy and free from rust; wonderfully productive; good size, jet black, with little bloom, firm, flavor sweet, pleasant; valuable for market.

BLACKBERRIES

PLANT on strong, deep, rich land, heavily manured; rows seven feet apart, two feet in the rows for field, prune as with raspberries; form a hedge or tie to wire, cultivate shallow; or may be planted in hills six feet each way, but hedge row preferable.

Blackberry plants are produced in two ways—one is by allowing the sprouts to grow up in the fruiting plantation and digging these up, leaving a piece of the root of the mother plant attached. These make poor, unsatisfactory plants, and a large percentage fail to grow, leaving sad gaps in the field or plot, and are dear as a gift. These are offered by young concerns or cheap Jack concerns at low prices—and are dear in the long run. The other way is to propagate in the greenhouse the cuttings until started and then plant out of doors for one or two years, producing a plant with a fully developed system of fibrous roots; such plants, under any decent care, all live and are worth five times as much as the suckers. Those I offer are grown by the latter method.

ANCIENT BRITON—This promising variety was brought from Wales some years since, and has gradually risen in public estimation upon its own merits to the highest place as a profitable and valuable berry. The plant is very vigorous, healthy and extremely hardy, the fruit stems are large and profusely loaded with medium sized luscious berries.

AGAWAM—Ripens earlier than other kinds and has a flavor similar and equal to the wild berry. Perfectly hardy. one of the very best hardy sorts.

- ✓ ERIE**—Very large and very early, perfectly hardy in the peach belt, strong grower and great bearer.
- ✓ GAINOR**—A large sized berry, very productive, harder than Erie or Kittatinny; not quite so hardy as Agawam, Ancient Briton or Western Triumph, but larger fruit.
- ✓ KITTATINNY**—Is ripe as soon as black, and much earlier, sweeter and better in all respects than the Lawton, which it resembles in plant and fruit. Not hardy enough except for the peach belt, but cannot be excelled inside that belt; berries are so very large and the plants so productive.
- ✓ LAWTON**—Fruit very large and black; tender outside the peach belt; an abundant bearer; resembles Erie, but not so hardy.
- ✓ LUCRETIA**—One of the low growing, trailing blackberries. The plant is perfectly hardy, healthy and remarkably productive, with large, showy flowers. The fruit, which ripens early, is often 1 and 1½ inches long by 1 inch in diameter, soft, sweet and luscious throughout, with no hard core; ripe before late raspberries are gone.
- ✓ RATHBUN**—Very large, jet black, firm enough to ship and handle well. Of best quality, very productive.
- ✓ SNYDER**—Extremely hardy, enormously productive, medium size, no hard sour core.
- ✓ TAYLOR**—Fruit of the best quality, melting and without core, very productive and hardy.
- ✓ WACHUSETT'S THORNLESS**—A blackberry almost thornless, of fair size and quality, but not so productive as some others.

CURRENTS

THIS fruit comes partly with the raspberry, but follows it several weeks. Indeed, none of the small fruits will remain so long upon the bushes without injury as the currant. Set 4½ to 5 feet apart in rich ground, rows six feet apart; in large plots plant five feet each way and cultivate both ways with horse. Cultivate well or mulch heavily, prune out old wood so that each remaining shoot will have room to grow; if the currant worm appears dust with hellebore every three weeks; manure freely. The best soil for currants is a heavy loam, and no fruit crop is more easily handled. Unlike strawberries or raspberries, you can let them hang when ripe for a few days without loss.

- ✓ BLACK VICTORIA**—An introduction from England. Berry of immense size, like small cherries; very productive bush and a very vigorous grower; season about with or a little before Black Champion.
- BOSKOOP GIANT**—An exceptionally fine currant of recent introduction from Holland. Berries larger than most black varieties; productive, and a vigorous grower. Season about with Champion.
- ✓ BLACK NAPLES**—The old reliable standard black currant, vigorous, productive, best on heavy soil.
- ✓ BLACK CHAMPION**—A new variety from England, more productive and fruit larger than Black Naples; season later than most sorts and hangs on extremely well; very profitable.
- ✓ CHERRY (Red)**—Old and reliable, largest red currant except Fay's, which is about the same size.
- ✓ COLLINS' PROLIFIC**—New black currant, productive, strong, vigorous grower; currants large size, good quality; among the earliest.
- ✓ COMET**—An English variety highly praised as being very large in bunch and berry, color brilliant crimson, flavor mild and pleasant.
- ✓ FAY'S PROLIFIC (Red)**—Has been cultivated for some years alongside all the best and most popular old varieties and has sustained all claims made for it by the originator, being as large as Cherry, berries more uniform, with larger stems and fruit less acid and far more productive; is the most popular red both for home use and for market.
- ✓ LEE'S PROLIFIC (Black)**—A variety not quite so vigorous as Black Naples, but more suitable for sandy loam, fruit sweeter and generally better liked for jam or jelly.
- ✓ PRINCE ALBERT**—Berry large, light red, bunch long, erect grower, immense bearer, ripens late; valuable.
- ✓ PERFECTION**—A cross between Fay's and White Grape. Berry very large, clusters longer, color beautiful bright red, a great bearer, ripens with Fay's. Was awarded the Barry Gold Medal of the Western New York Horticultural Society for a fruit of superior merit.
- ✓ RABY CASTLE (Red)**—Is one of the most profitable of all for market on account of its exceeding great productiveness and fine healthy foliage, which remains on and protects the fruit, enabling grower to hold back and not be obliged to market in a glut, medium size and good quality.

VERSAILLES (Red)—Clusters longer than Cherry, berries a little smaller, very productive. One of the most profitable red currants, in fact I think the most profitable, as it combines nearly the largest size with great productiveness and stands up straight and strong.

VICTORIA—Almost, if not quite, identical with Raby Castle.

WHITE GRAPE—The finest white currant, very productive; I think the most productive of any color, sweeter than the reds, makes beautiful jelly, should be in every family garden.

WILDER—Bush upright, vigorous, clusters above medium length, berries large to very large, bright red, excellent quality, a mild sub-acid flavor. Ripens early but remains firm upon the bushes until very late, very productive, vigorous growth. Stands at the top of the list for all around red currant.

GOOSEBERRIES

THIS FRUIT requires the same cultivation as the currant, heavy soil most suitable. A good method to prevent mildew is to mulch deeply, six or more inches with straw, tan bark, coal ashes, etc. Plantations thus treated have borne large crops for twenty years. The mulch retains moisture in the driest weather, the few weeds that push up are easily pulled, and the fruit is large and more evenly ripened. In mulching be sure the ground is underdrained, or it is worse than useless. Good cultivation is better than half mulching. Put it on thick. In a dry season the extra amount of fruit will doubly pay for the material used, not to speak of the saving of labor and cleanliness of the fruit. The demand is yearly increasing. The American varieties are very little subject to mildew. Do not dig deeply about the bushes when fruit is setting, shallow cultivation is better.

ENGLISH VARIETIES.

The number of varieties of English Gooseberries is almost innumerable. The fruit is generally large and handsome. Among the best sorts are Industry, Crown Bob (red), Keepsake and White Smith (greenish white), which in favorable localities do extremely well.

AUTOCRAT—Fruit dark green, oblong, large size; luscious for eating out of hand when ripe; vigorous, productive, not much mildew.

CROWN BOB—Fruit large, oblong, hairy, flavor first-class.

INDUSTRY—It is of vigorous, upright growth, larger cropper than any other known variety, one of the best for market purposes owing to the properties it possesses of flowering late and afterwards swelling so quickly as to reach a suitable size for pulling green sooner than any other variety; if left to attain maturity it is a dark red color, hairy, with pleasant, rich flavor.

KEEPSAKE—Very large, straw colored, excellent flavor. Can pull very early for green gooseberries.

WHITE SMITH—Fruit large to very large, oblong, flavor good; productive, fairly vigorous. One of the best.

AMERICAN VARIETIES.

CHAMPION—Long slender wood, easy to pick, thorns weak, fruit oblong, greenish white, tremendously productive, very vigorous; fit to use green two weeks before other varieties; not much subject to mildew. Twelve berries weigh 1½ ounces.

DOWNING—Origin, Newburg, N. Y.; fruit large, roundish, light green, with distinct veins, skin smooth, flesh rather soft, juicy and very good, vigorous and productive. Twelve berries weigh 12-3 ounces.

GOLDEN PROLIFIC—A fine large variety, golden in color when ripe and very desirable.

HOUGHTON'S SEEDLING—A small sized American variety, bears abundant and regular crops, seldom mildews; fruit smooth, red, tender and very good.

JOSSELYN (Red Jacket)—Fruit almost round, red, larger than Pearl or Downing; very vigorous grower, which is a desirable trait; does not mildew; is productive.

PEARL—An exceedingly productive variety, of good size and quality; in my opinion bound to supersede Houghton, Downing and Smith's Improved, being as free from mildew as any, as productive as Houghton and larger than Downing. Twelve berries weigh 1¾ ounces.

SMITH'S IMPROVED—Large, oval, light green, with bloom; flesh moderately firm, sweet and good; vigorous grower.

MISCELLANEOUS

MULBERRIES

THE MULBERRY is a very ornamental tree in garden or lawn, with its large, green, glossy foliage, and some newer varieties are worthy of general cultivation for their fruit alone.

DOWNING'S EVERBEARING—Produced from seeds of the Multicaulis; tree very vigorous and productive, continuing in bearing a long time; fruit $1\frac{1}{4}$ inches long and $\frac{3}{8}$ of an inch in diameter; color blue black; flesh juicy, rich, sugary, with sprightly vinous flavor.

NEW AMERICAN—Fruit of the largest size, black, delicious in flavor; an attractive lawn tree, with very large leaves, of rapid growth; hardy.

RUSSIAN—Fruit not so large as Downing or New American, but tree very much hardier, loads enormously; berries sweet and very pleasant to eat; tree grows vigorously. Well worth planting, even if fruit is gathered only by the birds who relish it immensely. When the birds are eating mulberries they will not be eating cherries.

ASPARAGUS

TO PREPARE a bed for this esculent, so highly esteemed, thoroughly mix soil to a depth of nearly a foot with a good dressing of well-rotted manure, plant the rows four to six feet apart and the roots say a foot apart in the row...A dressing of salt occasionally improves the yield and quality. Cut whenever the young shoots get about six inches above the ground. Enormous quantities can be grown from an acre if the ground is kept rich, and highly remunerative results follow an intelligent management.

CONOVER'S COLOSSAL—This is generally recognized as much superior to the old varieties, both in the early maturity and in the size of the plants, and hence the yield per acre.

PALMETTO—An extra early variety, tender and juicy, and regarded as a worthy rival in every respect of Conover's Colossal.

RHUBARB

TO SUCCEED BEST this requires plenty of rich manure...Prodigious quantities are taken from very small areas when manure is supplied liberally...The best varieties are as follows:

EARLY SCARLET—Small but very early and good.

MYATT'S LINNAEUS—Very large, early and fine and regarded as the best all round market sort.

GIANT—A very large productive sort of not quite as good quality as some others.

VICTORIA—A new sort, regarded by some of great value on account of its earliness and tender quality; size medium.

ROSES

WE GROW OUR ROSES on their own roots, and budded on Manetti stock. We have found from experience that some varieties grown on the Manetti stock adapt themselves to a wider range of climate and soil, and bloom, perhaps, more profusely, as well as to make stronger plants. Our "own roots" and budded roses are grown out of doors in ordinary soil, and they are as hardy and vigorous as it is possible to make them. Those marked "F" are specially recommended as fragrant. All these varieties are selected from the best roses grown, and they can be highly recommended. We give, in parenthesis below, each variety the name of the raiser and date of introduction.

HYBRID PERPETUALS.

- ANNA DE DIESBACH (F)**—Rosy carmine, large, very fragrant, vigorous grower.
- ALFRED COLOMB (F)** (Lacharme, 1865)—Vigorous; brilliant carmine crimson, very large and globular; high centre.
- AMERICAN BEAUTY (F)** (Bancroft)—Large; globular; pink, shaded with carmine.
- ANNIE WOOD** (Verdier, 1866)—Vigorous; beautiful, clear red color, large and full.
- BARON DE BONSTETTEN** (Liabaud, 1871)—Rich velvety maroon.
- BARONESS ROTHSCHILD** (Pernet, 1867)—Vigorous; delicate pink, suffused white; large; globular; beautiful.
- BARONNE PREVOST**—Vigorous deep rose; large and full; abundant bloomer.
- CHARLES LEFEBVRE (F)** (Lacharme, 1861)—Robust, rich velvety crimson scarlet; very large; exquisite form.
- CLIO (F)** (W. Paul, 1894)—Vigorous; flesh color; large globular, very free bloomer.
- CHARLES DARWIN** (Laxton, 1874)—Vigorous; brown crimson; perfectly round reflexed form.
- CAPTAIN HAYWARD** (Bennett, 1893)—Vigorous; bright carmine crimson; fine form; bud long and pointed.
- COQUETTE DES ALPES (F)**—White, shaded with carmine; small flowers in clusters. A continuous bloomer.
- DUPUY JAMAIN (F)** (Jamain, 1868)—Vigorous; very bright cerise; large, full and fine form; a distinct variety, and thoroughly reliable.
- DOCTEUR ANDRY** (E. Verdier, 1864)—Vigorous; deep carmine red; bright, large and full.
- DUKE OF EDINBURGH** (Paul, 1868)—Very vigorous; bright vermillion; large and full; splendid variety.
- DUKE OF ALBANY (F)** (Paul, 1880)—Vigorous; deep pink; very large and highly perfumed.
- DUCHESS OF BEDFORD** (Postans, 1879)—Vigorous; light scarlet crimson; imbricated and globular.
- EARL OF DUFFERIN (F)** (Dicksons, 1887)—Vigorous; rich, brilliant, velvety crimson, shaded with dark maroon.
- FISHER HOLMES** (Verdier, 1865)—Vigorous; crimson scarlet; large and full; free bloomer.
- FRAU KARL DRUSCHKI** (Lambert, 1900)—Very vigorous; snow white petals, shell shaped; very large; opening well.
- GENERAL JACQUEMINOT (F)** (Roussel)—Vigorous; brilliant crimson scarlet; large and full; very fragrant.
- GUSTAVE PIGANNEAU (F)** (Pernet-Ducher, 1889)—Vigorous; rose crimson; very large, full and cupped.
- HORACE VERNET** (Guillot, 1860)—Vigorous; velvety red, shaded with dark crimson; large and full.
- JULES MARGOTTIN (F)** (Margottin, 1853)—Brilliant cherry; large, good shape.
- JOHN HOPPER** (Ward, 1862)—Very vigorous; bright rose; very large and well formed.
- JEAN LIABAUD**—Vigorous; rose-lilac; large and symmetrical.
- LADY A. HILL** (Dickson, 1889)—Vigorous; rose-lilac; large and symmetrical.
- LOUIS VAN HOUTTE (F)** (Lacharme, 1869)—Vigorous; red scarlet, shaded purple; large and full.
- LADY HELEN STEWART (F)** (Dickson, 1887)—Vigorous; bright crimson scarlet; large, full and highly perfumed.

- MRS. R. G. SHARMAN-CRAWFORD (F)** (Dicksons, 1894)—Vigorous; deep, rosy pink, outer petals shaded pale flesh, white at base; an exceedingly fine rose.
- MABEL MORRISON** (Broughton, 1878)—White; full and cup shaped; petals firm.
- MADAME PLANTIER**—Vigorous; white; full form and a profuse bloomer.
- MARSHALL P. WILDER** (Ellwanger, 1884)—Vigorous; cherry carmine; profuse bloomer over an extended period.
- MAD. GABRIEL LUIZET (F)** (Liabaud, 1877)—Very vigorous; fine satin rose of beautiful tint; large and full.
- MRS. JOHN LAING (F)** (Bennett, 1887)—Vigorous; soft pink; very large and abundant bloomer; one of special merit.
- MERVEILLE DE LYON** (Pernet, 1882)—Pure white, tinted pink in centre; very large.
- MAGNA CHARTA** (Paul, 1876)—Vigorous; bright pink; large and full and early in season.
- MARGARET DICKSON** (Dickson, 1891)—Vigorous; white with flesh centre; petals very large, shell shaped and of immense substance; extra fine; gold medal National Rose Society.
- PRINCE CAMILLE DE ROHAN** (Verdier, 1861)—Vigorous; rich, deep velvety crimson; large, full and fine form.
- PAUL NEYRON** (or Neron) (Levet, 1869)—Vigorous; deep rose and very large, with fine foliage.
- ULRICH BRUNNER** (Levet, 1882)—Vigorous; cherry crimson.

HYBRID TEA ROSES.

- CROWN PRINCESS CECILIE** (Schmidt, 1907)—Delicate, silvery rose; long buds carried on stiff stems; free and continuous bloomer.
- DUCHESS OF ALBANY** (Paul, 1888)—Deep pink; large and full and highly perfumed.
- KAISERINE AUGUSTA VICTORIA** (Lambert & Reiter, 1891)—Beautiful primrose; excellent variety.
- KILLARNEY** (Dickson, 1898)—Vigorous; flesh shaded white, suffused pale pink; blooms large and pointed.
- LA FRANCE** (Guillot, 1867)—Vigorous; beautiful bright pink; large globular, free bloomer; highly perfumed.
- MRS. W. J. GRANT** (Dickson, 1895)—Imperial pink—a rare color; large, sweetly perfumed flowers, tapering shaped; prolific bloomer.

TEA ROSES.

For indoor culture... These roses are easily distinguished by their peculiar and exquisite shades of color, but more especially by their delicate fragrance.

- BRIDESMAID**—Clear pink; very fine.
- CATHARINE MERMET**—Light flesh; large and globular.
- ETOILE DE LYON**—Sulphur yellow; fine form.
- MADAME HOSTE**—Primrose yellow; large, full.
- NIPHETOS**—Pure white; large and pointed.
- PERLE DES JARDINS**—Deep straw yellow; large.
- PAPA GONTIER**—Rosy crimson; fine long buds.
- SAFRANO**—Bright apricot; free bloomer.
- SUNSET**—Deep apricot; free bloomer.

AUSTRIAN BRIARS.

These require little or no pruning. Remove only the dead and weaker wood.

- HARRISONII** (Harrison's Yellow) (Harrison, 1830)—Very pretty, bright yellow; suited for bedding.
- PERSIAN YELLOW** (Willock, 1837)—Deep golden yellow; very large; extra fine.
- SOLEIL D'OR** (Pernet, 1900)—Varying from orange to reddish gold; conical buds, opening to large; free bloomer.

MOSS ROSES.

Their beautiful buds and fragrance render these great favorites, and deservedly so. They require close pruning and good cultivation.

- AETNA**—Bright crimson; very double.
- BLANCHE MOREAU** (Moreau-Robert, 1880)—Pure white; perfect form; well mossed.
- COMTESSE DE MURINAIS** (Vibert, 1827)—White, shaded blush; a vigorous grower.
- CRESTED** (Vibert, 1827)—Pale rose; buds perfectly crested.
- PERPETUAL WHITE** (Laffay)—White; blooms in clusters; very mossy.
- SALET**—Clear rose; vigorous grower.

CLIMBING ROSES.

- AGLAIA; YELLOW RAMBLER** (Lambert & Reiter, 1896)—Bright yellow; flowers shell shaped form, with tea perfume.
- CRIMSON RAMBLER** (Turner, 1893)—Very vigorous; producing large trusses of crimson bloom; foliage strong, glossy green; decidedly the finest Rambler.
- DOROTHY PERKINS** (Perkins, 1902)—Vigorous; soft light pink; flowering in large clusters; very fragrant and lasting.
- PHILADELPHIA RAMBLER** (Conard & Jones, 1903)—Vigorous; glowing crimson; flowering in large clusters.
- RUBIN** (Schmidt, 1900)—Vigorous; deep crimson; large blooms, well formed.
- TAUSENDSCHON** (Schwartz, 1906)—Vigorous; opening flowers pink; rosy carmine when open; large clusters
- THALIA; WHITE RAMBLER** (Lambert & Reiter, 1896)—White; flowering in clusters.
- VIOLET-BLUE**—New; crimson blue, resembling Crimson Rambler in habit and growth.

CLIMBING PRAIRIE ROSES.

- BALTIMORE BELLE**—Fine white, with blush centre; very full and double.
- GEM OF PRAIRIE**—Strong and vigorous grower, similar in habit to Queen of Prairie, but flowers are darker, besides being fragrant.
- QUEEN OF PRAIRIE**—Bright rose color; large, compact and globular; a profuse bloomer.

RUGOSA HYBRIDS.

Natives of Japan. Exceedingly hardy, growing in almost any soil. Flowers are single, large and fragrant, and the seed pods are bright red, and are striking objects during winter months. No pruning required after the first season.

- RUGOSA** (Thunberg)—Vigorous; Crimson; single.
- RUGOSA ALBA** (Thunberg)—Vigorous; white; single.

ROSES—NOVELTIES.

- ANNY MULLER; PINK BABY RAMBLER** (Schmidt, 1907)—Dwarf Polyantha; large clusters of brilliant, rose colored flowers produced in great profusion; a good bedding variety; dwarf.
- MADAME NORBERT LEVAVASSEUR; BABY RAMBLER** (Levavasseur, 1902)—Dwarf form of Crimson Rambler; hardy, vigorous and perpetual flowering; a valuable bedding variety and for indoor culture.

PÆONIES

It is surprising that so beautiful a flower, almost equal to the rose in brilliancy of color and perfection of bloom, should be so little grown. One great feature in favor of the Pæony is its hardiness. In the severest winters the plants require no protection, and their freedom from disease and insect pests are other important arguments in their favor. Extra care and attention are not required to bring the bloom to its natural beauty, and each succeeding year will add to their size. Our collection includes the best and most distinct varieties.

- CY THEREE**—White, bordered carmine.
- FAUST**—Beautiful blush white.
- FESTIVA**—White, with suggestion of carmine in centre.
- JEANNE D'ARC**—Delicate rose-pink.
- MADONNA**—Ivory white; shaded copper and sulphur.
- MAGNIFICA**—Blush, centre shaded yellow.
- OFFICINALIS ALBA**—Old fashioned white Pæony; large and fragrant.
- OFFICINALIS ROSEA**—Old fashioned rose-pink Pæony; large and sweet scented.
- OFFICINALIS RUBRA**—Double; crimson; large and fragrant; the old fashioned "Red Pæony."
- QUEEN PERFECTION**—White; centre yellow.

Hardy Herbaceous Border Plants

The following varieties are perennial, the growth of each year is killed to the ground by winter frosts, but the roots remain perfectly sound in the earth and ready to shoot out again in the spring. They need but little attention and they will repay the planter of them with a profusion of bloom, both early and late.

ACONITUM AUTUMNAL—Erect; flowers deep blue; late; height, 4 feet.

DICENTRA SPECTABILIS (Bleeding Heart)—Curiously formed; blooms rosy crimson color, with white protruding stamen; quite hardy and a prolific bloomer; May and June.

EULALIA—A hardy ornamental grass or reed, which is extremely showy and of easy cultivation.

EULALIA JAPONICA—A vigorous grower, with large plumes.

EULALIA JAPONICA ZEBRINA—A most beautiful form of the above; foliage marked with stripes of white and green; grows 4 to 6 feet high.

Gypsophila paniculata (Infants Breath)—Flowers small, white, carried in large panicles most valuable for bouquets; July.

FUNKIA VAR ALBA (Plantain Lilly)—Beautiful, luxuriant foliage; pure white fragrant flowers; will thrive in almost any position.

IRIS GERMANICA (German Iris or Fleur de Lis)—

APOLLON—Golden yellow, striped plum color; very fine.

SAMSON—Standard petals, purplish blue; falls dark purple.

LIABAUD—Yellow and maroon; fine.

SILVER KING—Flowers silvery white; distinct and fine.

EUGENE SUE—Creamy white, with purple spots and stripes.

ATROPURPUREA—Purple; one of the best.

HELENIUM HOOPESII (Sneeze Weed)—Large bright, orange, showy flowers.

PHYSALIS FRANCHETTI (Winter Cherry)—In the fall of the year this charming little plant bears a bladder like calyx, resembling a miniature Chinese lantern of orange color; exceedingly attractive, and they are valuable for drying.

STATICE LATIFOLIA (Sea Lavender)—Broad luxuriant foliage; large trusses of lilac flowers; fine for drying.

YUCCA—The plant has a striking appearance, the stem being covered with large, bell-shaped flowers, which form a pyramid. Very effective on the lawn.

YUCCA FILAMENTOSA (Adams Needle)—Long, pointed, spearlike leaves and creamy white flowers; grows from 3 to 4 feet high and blooms in July.

DECIDUOUS TREES

ACER—MAPLE.

NEGUNDO FRAXINIFOLUM (Ash Leaved)—A very rapid growing tree of extreme hardiness, thriving on the plains of the Northwest. The foliage is light green, and leaves are similar in shape to those of the common ash; the habit is somewhat spreading.

PLATANOIDES (Norway)—A distinct foreign variety, with large broad leaves of rich green. Probably the best maple in cultivation.

SCHWEDLERII (Schwedler's Purple)—A beautiful variety, with young shoots and leaves of bright purplish and crimson color, which changes to purplish green in older leaves; probably the best of the Purple Maples.

POLYMORPHUM VAR. ALROPURPUREUM (Japan Blood Leaf Maple)—Forms a bushy tree with dark blood red foliage. The hardiest and best of the Japanese Maples.

REITENBACHII (Reitenbach's Norway Maple)—A very handsome purple variety, the color changing from purplish green in the spring to purple and scarlet in the autumn; a rather slow grower when young, about like the Canadian hard maple in that respect.

ACER—MAPLE—Continued

- PSEUDO-PLATANUS FOLIIS ATROPURPUREA** (Purple Sycamore)—A very beautiful species of Sycamore maple. The large foliage is purplish crimson on the underside and dark green on the upper surface. In extra severe winters young wood is sometimes slightly damaged by freezing.
- PSEUDO-PLATANUS** (Sycamore)—A handsome tree of rapid upright growth, with large foliage and smooth, ash green colored bark.
- GINNALA** (Siberian)—Of dwarf habit and compact form, very hardy, succeeds in Manitoba admirably. A very pretty small tree.
- DASYCARPUM OR ERIOCARPUM** (Silver-Leaved or Soft)—Of rapid growth and desirable for immediate effect, will thrive in wet soil where hard maple will not. This is a native of America and very hardy and desirable.
- SACCHARINUM** (Sugar or Rock)—Very popular American tree, and for its stately form and fine foliage justly ranks among the best, both for lawn and avenue.
- TARTARICUM** (Tartarian)—A native of Southeastern Europe, grows to a medium size, leaves small, handsome, somewhat scarlet foliage, forms a round head.
- WIERII LACINIATUM** (Weir's Cut-Leaved)—A silver maple with remarkable and beautiful dissected foliage; of rapid growth, shoots slender and drooping, giving it a very graceful appearance; should be in every collection.

AESCULUS—HORSE CHESTNUT.

- VAR. ALBA FLORE PLENO** (Double White)—A superb variety, with large spikes of handsome double flowers.
- HIPPOCASTANUM** (Common White Flowering)—Very beautiful, well-known tree, with round dense head, dark green foliage and an abundance of showy flowers in early spring.
- VAR. RUBICUNDA** (Red Flowering)—Magnificent reddish flower spikes; foliage of a deep green, and blooms late. A very showy tree, and makes a fine contrast when planted alternately with white flowering.

AILANTHUS—TREE OF HEAVEN.

- GLANDULOSA**—A lofty, rapid growing tree, with long, elegant, feathery, pinnate foliage; exempt from all diseases and not attacked by insects; has a tropical appearance.

ALNUS—ALDER.

- VAR LACINIATA IMPERIALIS** (Imperial Cut-Leaved)—A very striking and beautiful tree, with delicate and beautiful cut leaves; hardy and of vigorous growth. One of the finest cut-leaved trees in cultivation.

BETULA—BIRCH.

- ATROPURPUREA** (Purple-Leaved)—Very desirable novelty. With the habits of the birches it has beautiful purple foliage, as dark as that of the Purple Beech.
- PAPYRACEA** (Canoe or Paper)—The bark of which is used in the unsettled districts for making the famous birch bark canoe. The white bark of this very hardy tree contrasts beautifully with evergreens, and is a handsome thrifty tree at all times.
- PENDULA LACINIATA** (Cut-Leaved)—Beyond question one of the most popular of all weeping or pendulous trees. Its tall, slender, yet vigorous growth, graceful drooping branches, silvery-white bark, and delicately cut foliage, present a combination of attractive characteristics rarely met with in a single tree.
- PENDULA YOUNGII** (Young's)—When grafted on a stem five to six feet high, it forms a beautiful pendulous head, and its slender shoots droop gracefully to the ground. An interesting weeping tree.

CASTANEA—CHESTNUT

- AMERICANA** (American)—A stately tree, well known in many parts of Canada; produces small nuts, but of choice quality; a grove of these on suitable soil would yield a very large revenue; the soil requires to be loamy or sandy, and dry to a considerable depth to secure the best results.
- VESCA** (Spanish)—Originally from Asia Minor; a very handsome lawn tree; produces much larger fruit than the American, but not of so choice a quality.
- JAPONICA** (Japan)—Similar to Spanish, producing very large fruit also.

CATALPA.

BUNGEII (Chinese Catalpa)—Of dwarf habit, growing only from 3 to 5 feet high. Foliage large and glossy, a sky bloomer.

KAEMPFERI (Japan Catalpa)—A species of rapid growth with deep green glossy foliage, flower fragrant, cream colored, speckled with purple and yellow.

SPECIOSA—A variety originating in the west; more upright and symmetrical in its growth than the common Catalpa and blossoms two or three weeks earlier. Very valuable for timber, fence posts, railroad ties, etc., possessing wonderful durability. Very ornamental and valuable tree. Does especially well on sandy and gravelly soil.

CERCIS—JUDAS TREE OR RED BUD.

CANADENSIS—A very ornamental native tree, with perfect heart-shaped leaves of pure green color. The tree derives its name of Red Bud from the profusion of reddish purple flowers with which it is covered before the foliage appears.

CORNUS—FLOWERING DOGWOOD.

FLORIDA (White Flowering Dogwood)—An American species of spreading, irregular form, growing from 16 to 25 feet high. The flowers produced in spring before the leaves appear are from 3 to 3½ inches in diameter, white and very showy.

FLORIDA FLORE RUBRO (Red Flowering)—A variety of the well-known White Dogwood, but having a deep rosy pink colored flower. The leaves have a soft, velvety appearance, and are of a darker green than the old variety. It makes a good, upright, bushy growth.

CRATAEGUS—THORN.

FLORE ALBO PLENO (Double White)—Has small, double white flowers, and very profuse in blossoms which appear in May.

COCCINEA FLORE PLENO PAULII (Paul's Double Scarlet)—Fine variety, flowers deep crimson, with scarlet shade; very double and considerably larger than the common double red; fine rich foliage.

RUBRA PLENO—Flowers double pink; quite distinct.

CYTISUS—GOLDEN CHAIN.

LABURNUM (Common Laburnum or Golden Chain)—A native of Europe. Tree bears long drooping racemes of yellow flowers, which appear in June.

FAGUS—BEECH.

PURPUREA RIVERSII (River's Smooth Leaved Purple Beech)—A remarkable species, with deep purple foliage, changing to greenish purple in the autumn. Very striking contrast with other ornamental trees. Attains a height of 40 to 50 feet and a breadth of 40 feet or more.

PENDULA—This is a pronounced kind of weeping tree, the limbs drooping almost to the ground. A tree of extraordinary grace and beauty when covered with leaves.

GLEDITSCHIA—HONEY LOCUST.

TRIACANTHOS—A rapid growing native tree with powerful spines and delicate foliage, generally used for hedges.

GYMNOCLADUS.

CANADENSIS (Kentucky Coffee Tree)—A fine tree of secondary size, rapid upright growth, with rough bark, stiff, blunt shoots and feathery foliage of a bluish green color.

JUGLANS—WALNUT.

JAPONICA (Japan)—Similar to Spanish, producing very large fruit also.

NIGRA (Black or Common)—A very strong growing tree; attains an immense size; requires rich deep dry land; wood is very valuable; the extending branches of a tree grown in the open often measures 60 to 80 feet across. bears enormous quantities of nuts.

REGIA (English)—Not quite so hardy as American or Black Walnut, but is hardy in the peach belt, and the nuts are preferable, being thin shelled and fuller of meat.

CINERA (White or Butternut)—A native tree of spreading growth when grown in the open; nuts oval shaped and rough and about the same size as walnuts; loads heavily; grows admirably on a rocky hillside; flourishes near the top of the Helderleigh escarpment in the rear of the nurseries, and 300 feet higher.

KOELREUTERIA.

PANICULATA (Varnish Tree)—A hardy small round headed tree, which bears large panicles of golden yellow flowers in the end of July. Leaves change as season advances to golden yellow; a most desirable tree.

LARIX—LARCH.

EUROPEA (European)—An excellent, rapid growing, pyramidal tree; also valuable for timber. Small branches drooping.

KAEMPFERII (Japan)—Young foliage light green, changing to a golden yellow in fall; hardy.

LIRIODENDRON—TULIP TREE.

TULIPIFERA (Tulip Tree or Whitewood)—A magnificent tree of tall pyramidal habit with broad, glossy, fiddle-shaped leaves of light green color and handsome tulip-like flowers; should be transplanted when trees are small.

MAGNOLIA

These magnificent trees, with their stateliness of form and splendor of growth and bloom, together with the rich foliage, are in the foremost rank amongst hardy shrubs and trees. They have no rival when planted in groups, and their effect in early spring is magnificent, brightening up the surrounding landscape and filling the atmosphere with the richest perfume imaginable.

ACUMINATA (Cucumber Tree)—A beautiful pyramidal growing tree that attains a height of sixty to 90 feet; leaves six to nine inches long, bluish green color; flowers yellow with bluish purple; fruit, when green, resembles a cucumber. An American specie.

CHINESE CLASS

These flower early in spring before the appearance of the leaves.

CONSPICUA (White or Yulan)—Of the Chinese class and of shrubby growth; flowers large and pure white, very numerous, and appear early before the leaves; this, like all magnolias, is one of the most beautiful of trees.

LENNEI (Lenne's Magnolia)—Strong grower, and certainly one of the best. Dark purple flowers, large, cup-shaped, which open in April.

SOULANGEANA—One of the best of the Hybrid Chinese Magnolias; grows to medium size; is one of the hardiest of its class; has cup-shaped flowers three to five inches in diameter.

SPECIOSA—Resembles Soulangiana in foliage, but bloom smaller and later. Flowers remain in perfect condition longer than most varieties.

TRIPETALA (Umbrella Tree)—Hardy native medium sized tree, with enormous tropical looking leaves and large white fragrant flowers, which appear in June.

MORUS—MULBERRY.

TARTARICA PENDULA (Teas Weeping)—A very thrifty, vigorous grower, perfectly hardy, forming a natural umbrella-shaped top, or head; foliage handsome. New and valuable.

POPULUS—POPLAR.

BOLLEANA—A very tall, strong growing tree, leaves silvery on the underside; one of the very best poplars.

MONOLIFERA (Carolina)—Similar to Lombardy, but does not sucker so much, and grows even faster; has large leaves of a glossy appearance.

CANADENSIS VAR. AUREA VAN GEERTII (Golden)—Foliage is of a golden hue, more spreading in habit than others mentioned.

FASTIGIATA OR DILATATA (Lombardy)—Vard distinct, well-known variety, of rapid growth and tall narrow form, reaching a height of 100 feet and over.

PLATANUS—PLANE TREE

OCCIDENTALIS (American Plane or Buttonwood)—A well-known tree, useful for park and street planting. Leaves heart-shaped at base, the short lobes being sharp pointed.

PYRUS—CRAB.

MALUS FLORIBUNDA—Single flower, beautiful carmine in bud, white when open. Fruit very ornamental in fall.

MALUS FLORIBUNDA ATROSANGUINEA—Flowers crimson, produced in great profusion. A charming variety.

ANGUSTIFOLIA (Betchell's Double Flowering)—One of the most beautiful of the Crabs. Tree covered in spring with large double pink flowers. fragrant. Blooms when quite young and late in the season after others.

QUERCUS—OAK.

ROBUR (English)—The Royal Oak of England, a spreading tree of somewhat slow growth.

MACROCARPUS (Mossy Cup or Bur)—A native tree of spreading form, foliage deeply lobed, has the largest and most beautiful foliage of the oak family. A magnificent tree when fully grown, requiring plenty of room.

RUBRA (Red)—A native species of large size and rapid growth, foliage purplish red in the fall.

COCCINEA (Scarlet)—A native tree of rapid growth, foliage changes to bright scarlet in the autumn, when it presents a most gorgeous appearance.

ROBINIA—ACACIA.

ROSEA GLABRA—A beautiful species of spreading growth, with clusters of rose colored flowers appearing in June and at intervals later.

SALISBURIA—MAIDEN HAIR OR GINKGO TREE.

ADIANTIFOLIA—A remarkable tree from Japan, combining in its habits the characteristics of coniferous and deciduous trees; it grows to a medium size, but rapidly; has beautiful fern-like foliage, and is very hardy, succeeding perfectly at Ottawa; free from all insect pests; a very valuable ornamental tree, and ought to be much more extensively planted.

SALIX—WILLOW.

CAPREA VAR. PENDULA (Kilmarnock)—An exceedingly graceful weeping tree, with large, glossy leaves; one of the finest of this class of trees; very hardy.

PURPUREA PENDULA (American)—A very handsome weeping tree, with delicate, feathery-like foliage on innumerable slender weeping branches.

BABYLONICA (Babylonian)—Our common and well-known weeping willow, that grows so rapidly and attains such a large size.

ROSEMARINIFOLIA OR PETIOLARIS (Rosemary Leaved)—A variety with singularly handsome dense feathery foliage, of a silvery color. Does not grow large.

VITTELINA (Russian)—Bright bark, very conspicuous in winter. A hardy variety.

SORBUS—MOUNTAIN ASH.

- AUCUPARIA** (European Mountain Ash)—A fine hardy tree, covered from July to winter with bright scarlet berries.
- AUCUPARIA VAR. PENDULA** (Weeping Mountain Ash)—A beautiful variety, rapid grower, and a decidedly pendulous habit. Desirable lawn tree.
- QUERCIFOLIA OR PINNATIFIDA** (Oak Leaved Mountain Ash)—Hardy tree, with large hairy lobed leaves distinct and fine. A most useful ornamental tree.

TILIA—LINDEN, LIME OR BASSWOOD.

- AMERICANA** (American Linden or Basswood)—A rapid growing, large sized tree; very large foliage.
- EUROPEA** (European)—A very fine tree, with large leaves and fragrant flowers, which are much sought after by the bees.
- PENDULA**—A weeping form of the European variety. An elegant tree with graceful pendulous growth.

ULMUS—ELM.

- AMERICANA** (American White)—The noble, drooping, spreading tree of our own woods. One of the grandest of park or street trees.
- STRICTA PURPUREA** (Purple)—A beautiful variety, leaves of rich purple color when young.
- CAMPESTRIS** (English Elm)—An erect, lofty tree of rapid growth, with smaller leaves and more regularly cut than those of the American Elm, and darker colored bark; the branches project from the trunk almost at right angles.
- MONTANA** (Scotch or Wych Elm)—A very strong, vigorous, rapid growing tree, with large leaves for an elm and most highly to be recommended for street or park planting. An avenue of full grown elms is one of nature's grandest pictures.
- LATIFOLIA**—A particularly straight and rapid growing, handsome elm; limbs spreading like a fan.
- CAMPERDOWN PENDULA** (Camperdown, Weeping)—Its vigorous, irregular branches, which have a uniform weeping habit, overlap so regularly that a compact, roof-like head is formed; the finest weeping tree.

CONIFERÆ (EVERGREENS)

ABIES AND PICEA.

(Spruce, Fir, Tsuga and Hemlock.)

- ALBA**—White spruce. A native tree, varying in growth from 25 to 50 feet. Foliage silvery gray. An exceptionally hardy and valuable tree for our Northwest provinces.
- CANADENSIS**—Hemlock. A graceful tree, with drooping branches. Can be used for hedges.
- DONGLASII** (Douglas Spruce)—A native of Colorado; large conical shaped tree; spines green and glaucous tinted underneath.
- EXCELSA** (Norway Spruce)—One of the most beautiful and most valuable evergreen we have; hardy, thrifty, rapid grower; excellent hedge tree or wind-break; branches assume a graceful drooping habit when the tree attains from 15 to 20 feet in height.
- EXCELSA AUREA** (Golden Spruce)—A beautiful golden variety of the Norway Spruce.
- EXCELSA VARIEGATA** (Variegated Norway Spruce)—A variegated variety of the Norway Spruce; an interesting and quaint tree.
- INVERTA** (Weeping Spruce)—A weeping variety; slow growing, of the above Norway Spruce.
- PUMILA** (or Pygmea)—Compact, dwarf and symmetrical; desirable for small lawns.
- NIGRA DOUMETTI**—A beautiful variety of compact habit, with dark bluish leaves; quite distinct.
- PUNGENS GLAUCA KOSTERII** (Colorado Blue Spruce)—A hardy tree and certainly the most beautiful of all spruces; foliage a rich blue, with a decided and prominent glaucous tint, which is more pronounced perhaps during the spring and summer months.
- NORDMANIANA**—A noble fir of symmetrical shape, and fairly hardy; green spines, shiny above and glaucous below; makes a fine specimen tree.

JUNIPERUS—JUNIPERS.

- CHINENSIS** (Chinese)—A dense growing, hardy variety, with silver tipped foliage in the growing season.
- COMMUNIS VAR HIBERNICA** (Irish)—A distinct and beautiful variety, erect, dense, conical outline, resembling a pillar of green.
- JAPONICA** (Japanese)—A dwarf dense variety, the branches reaching out in fantastic irregularity; foliage a light green; a desirable novelty.
- SABINA** (Savin)—A dwarf spreading shrub, with trailing branches, grows only about two feet in height, but spreads over the ground to a size of 10 to 15 feet in diameter; hardy and highly ornamental where such a tree is desired; foliage dark green.
- COMMUNIS VAR SUECICA** (Swedish)—A small sized pyramidal tree, of handsome outline, with yellowish green foliage; quite hardy.
- VAR GLAUCA** (Glaucous)—This is a variety of Red Cedar, having a beautiful silver foliage; is extremely handsome; slightly tender at Ottawa, but perfectly hardy in Southern Ontario.
- VIRGINIANA**—A native of America, grows to be a medium sized tree and of fine form; the dark green lacy foliage, healthy, hardy nature of this tree, makes it a desirable lawn tree, also makes a good hedge.

PINUS—PINE.

- AUSTRIACA** (Austrian or Black)—A remarkably robust, hardy, spreading tree; leaves long, stiff and dark green; growth rapid; valuable for this country.
- MUGHO** (Dwarf Pine)—An upright small pine found on the Alps and Pyrennees. The width is usually greater than the height, seldom over 10 to 20 feet high.
- SYLVESTRIS** (Scotch)—A fine, robust, rapid growing tree with stout, erect shoots and silvery green foliage.
- STROBUS** (White or Weymouth)—The most ornamental of our native pines; foliage light or silvery green; flourishes in the poorest soils.
- MONTANA** (Pumilo)—Mountain Pine. An Alpine species, broader than its height, used for planting on rocky banks, rockeries and small lawns.

RETINOSPORA—JAPAN CYPRESS.

- FILIFERA**—This is an exquisitely delicate, lace-like, leaved evergreen of drooping habit perfectly hardy at Ottawa, where specimens 6 feet or so high may be seen on the Experimental Farm grounds.
- FILIFERA AUREA**—This is almost identical with Filifera, but has golden tipped foliage, and is very unique.
- PLUMOSA**—Hardy at Ottawa, the most satin-like, delicate foliage, compact, unlike any other evergreen in appearance, strong grower.
- PLUMOSA AUREA**—A golden-tipped variety of similar appearance to Plumosa only that it is tipped with gold and is not so strong a grower; very pretty, retains its golden color throughout the year; only reaches a height of 4 to 5 feet.
- SQUARROSA VEITCHII**—Extraordinary compact habit, grows to be only 4 to 5 ft. high, the growth apparently going inward until it is a solid, irregular column of a very odd shape and appearance; hardy and worth planting as a rare oddity.

SCIADOPITYS.

- VERTICILLATA** (Umbrella Pine)—A handsome conifer from Japan. This variety is not sufficiently hardy for planting at Ottawa, but it has been successfully grown in this district and many parts of New York State.

THUYA—ARBOR VITAE.

- OCCIDENTALIS** (American)—Valuable for hedges; is very hardy and easily transplanted, few or no plants ever failing if nursery specimens are obtained; grows rapidly, and with little care soon forms a beautiful hedge, very dense, and perfectly impervious to the sight.
- BOOTHII** (Booth's)—A choice, medium sized variety, attains a height of about 8 feet in 12 to 15 years, and about the same width. Grows very dense and is a very desirable evergreen.
- COMPACTA**—A low growing, very compact, handsome variety, attains a height of only about 5 feet when fully grown, and about the same diameter; being largest in diameter a little below the centre.

THUYA—ARBOR VITAE—Continued

ELLWANGERII (Ellwanger's)—A very elegant delicate foliaged variety, distinct in appearance; attains a height of about 10 feet, and a width at the base of about the same.

SEMPER AURESCENS (Ever Golden)—A variety of the Chinese, nearly spherical in form; of dwarf habit, retains its golden tint the year round. One of the best variegated evergreens, but not sufficiently hardy except for Southern Ontario.

GLOBOSA (Globe Headed)—This is one of the most desirable of evergreens; forms a very dense round head, and grows strong and thrifty; of a dark green color; attains a height of only 6 to 8 feet and about the same breadth.

OCCIDENTALIS AUREA (Golden)—Dense foliage, tipped with a golden color; is one of the handsomest evergreens for hedges or single specimens; does not grow rapidly, and does not attain a great size, hence for many purposes is desirable on this account, in addition to its beautiful appearance.

INTREMEDIA—Very similar to *Compacta*, about the same size, but more spherical in shape.

LOBBII AUREA (Lobb's Golden)—This is one of the very finest things in this class of evergreens, the tips of the branches being tinted a bronzed golden shade. A medium sized tree only, growing dense and about as broad at the base as the height.

PYRAMIDALIS (Pyramidal Arbor Vitæ)—This is a strikingly beautiful tree planted singly or in pairs, stretching up to a height of 25 to 30 feet when 15 to 20 years old; a pyramid of solid green; grows in shape like a church spire.

WARREANA (Siberian)—The best of all the cedars for Northern Ontario and Quebec, being exceedingly hardy, and keeps its color well all winter; grows compact and strong; stands shearing well and is suitable alike for hedges, lawns or for clumps; attains a height of 10 to 12 feet and about 8 feet across.

TOM THUMB—A dwarf variety, attains a height of only 4 feet and a width of 7 feet, opens somewhat at the top, and therefore not as fine as *Globosa*, *Compacta* and *Intremedia*, which all retain their closed, compact shape, still a fine dwarf evergreen.

VERVÆNEANA (Vervæne's)—A variety with a golden tinted foliage, forms a most strikingly handsome tree, pyramidal in form; attains a height of 15 to 20 feet and 7 to 8 feet at the base. No finer evergreen in existence.

HOVEYII AUREA (Hovey's)—A distinct hardy American variety; dense and conical, with light golden green foliage.

LUTEA (Geo. Peabody)—A handsome, little pyramidal bush, with clear, lasting yellow foliage.

THUJOPSIS—CYPRESSUS NUTKAENSIS.

BOREALIS—An evergreen of vigorous, erect habit, spreading branches drooping at the tips, of a silvery glaucous tint, reported hardy at Ottawa, though stated not hardy by some. Here, at Winona, it has been hardy since planted, though slightly injured in the extreme winter of 1903-04. A very handsome tree.

BOREALIS COMPACTA—This is a silvery glaucous color also, very compact, grows pyramidal in shape, not perfectly hardy here; distinct and more closely compact and pyramidal than any other tree I know of.



HEDGE OF SPIREA VAN HOUTTE.

ORNAMENTAL DECIDUOUS SHRUBS

AMORPHA.

FRAGRANS—A large distinct looking shrub with large panicles of blue or white flowers on terminals of shoots in July.

AZALEA.

MOLLIS—A splendid hardy species from Japan, and one of the most valuable flowering shrubs. Flowers large and showy yellow and different shades of red, in fine trusses.

BERBERIS—BARBERRY.

PURPUREA (Purple Leaved)—An interesting and beautiful variety, with violet-purple leaves and fruit; hardy and easy to grow, and very ornamental either on the lawn or as a hedge.

THUMBERGII (Thumberg's, from Japan)—A pretty species, of dwarf habit, small foliage, changing to a beautiful coppery red in autumn. Valuable as an ornamental hedge.

CALYCANTHUS—CAROLINA ALLSPICE OR SWEET SCENTED SHRUB.

FLORIDUS—The wood of this shrub is fragrant; foliage rich, flower of a rare chocolate color having a peculiar agreeable odor. They blossom in June and at intervals afterward.

CARAGANA—PEA TREE.

ARBORESCENS (Siberian Pea Tree)—A graceful shrub, bearing pea shaped, yellow flowers in May.

FRUTESCENS—A most desirable shrub, with rather larger flowers than *C. Arborescens*, but not so tall; its height, when matured, is probably 5 to 6 feet.

CARYOPTERIS—BLUE SPIREA.

MASTACANTHUS—Pretty little shrub, with clusters of beautiful blue flowers; very fragrant and borne in great profusion until September; somewhat tender and require protection.

CORNUS—DOGWOOD.

SIBERICA (Red Branched)—Very conspicuous and ornamental in winter on account of its blood-red bark; does not grow to be a tree.

ELEGANTISSIMA VARIEGATA—A variegated-leaved species of the red-twigged; the leaves are broadly margined with white and in some cases entirely white.

SPÆTHII—Similar to the last named except that the variegation is yellow instead of white; one of the finest ornamental shrubs.

CORYLUS—HAZEL OR FILBERT.

AVELLANA ATROPURPUREA (Purple Leaved)—This is one of the very best purple-leaved trees or large shrub, the foliage being so densely purple in color; retains its color throughout the season.

CYDONIA (PYRUS JAPONICA)—JAPANESE QUINCE.

JAPONICA (Scarlet Japan Quince)—Has bright, crimson flowers in great profusion; one of the most attractive ornamental shrubs grown; makes an attractive hedge.

ATROCOCCINEA PLENA—Double flowering variety of Japanese Quince; an attractive shrub.

ALBA—A beautiful variety, with delicate white and blush flowers.

DAPHNE—DAPHNE.

MEZEREUM (Common Mezereon)—A charming early flowering shrub, bearing clusters of pink flowers in March. The earliest flowering shrub we have.

DEUTZIA—DEUTZIA.

This interesting family were introduced from Japan. They are hardy, thrifty, profuse bloomers, and should, we think, be planted more largely.

CANDIDISSIMA (Double White Flowering)—One of the finest shrubs, producing snow-white flowers of great beauty, and valuable for bouquets and baskets.

CRENATA FLORE PLENO—One of the most desirable of the Deutzias, flowers double tinged with rose.

GRACILIS—An exquisitely beautiful white flowering sort, of dwarfish habit—more so than other varieties; blossoms early in June, with *Spirea Van Houtte* and *Exochorda Grandiflora*.

PRIDE OF ROCHESTER—A variety raised from *Deutzia Crenata Flore Pleno*, and producing large double white flowers, the back of the petals being slightly tinged with rose. It excels all of the older sorts in size of flower, length of panicle, profusion of bloom and vigorous habit; blooms nearly a week earlier than *Deutzia Crenata Flore Pleno*.

SCABRA (Rough leaved)—One of the most beautiful, profuse flowering shrubs, white.

DIERVILLA—WEIGELA.

Another valuable shrub of Japanese origin... They produce, in early summer, superb large trumpet-shaped flowers of all shades and colors. In borders and groups they are most attractive, and they are recommended for planting with the Lilacs, as they follow immediately after them in blooming.

ABEL CARRIERE—Scarlet bloom in the most wonderful abundance; robust grower; very grand in color. Earliest to bloom.

CANDIDA (White Flowered)—A strong, robust grower like *Rosea*, but having pure white flowers that are in the most luxuriant profusion, and endure from the beginning of June to autumn; a really very valuable addition to the list of hardy, robust shrubs, and should be in every collection.

HYBRIDA EVA RATHKE—A charming variety, with beautiful, brilliant, crimson flowers of a clear shade.

LAVALLEI—Much darker crimson than *Rosea*, and ten days later.

ROSEA (Rose-Colored)—An elegant shrub, with fine rose-colored flowers, introduced from China by Mr. Fortune, and considered one of the best plants he has discovered; hardy, blooms in early June; grows to be a large shrub, 10 feet across and the same height; at their best about June 20.

STELZNERII—Resembles *Rosea*, but even more profuse of bloom, and slightly more crimson; apparently hardiest of all.

SIEBOLDII ALBA MARGINATA—Yellow variegated leaves, turning to silvery white when matured; flowers rose colored; a most desirable upright growing shrub.

NANA FOLIIS VARIEGATA (Variegated-leaved)—Of dwarf habit, and possessing clearly defined, silvery variegated leaves; flowers nearly white. It stands the sun well, and is one of the best dwarf variegated-leaved shrubs.

VERSCHAFFELTI—Somewhat similar to *Rosea*; very profuse of bloom.

ELAEAGNUS—OLEASTER.

LONGIPES (Japan Oleaster)—A handsome, shapely, silver-leaved shrub, with ornamental red brown bark; hardy and easy to grow; bright yellow flowers in June on long stalks, but the chief beauty of this shrub is in the orange-red fruit which is produced in profusion along the whole length of the branches.

EUONYMUS— STRAWBERRY OR SPINDLE TREE.

EUROPAEUS (Strawberry Tree)—A very ornamental and showy shrub, its chief beauty consists in its brilliant berries, which hang in clusters from the branches until mid-winter; berries rose-colored; planted with a back-ground of evergreens the effect of contrast is very fine.

ATRO PURPUREUS (Burning Bush)—A low growing shrub with larger leaves than *Europæus*, turning to scarlet in autumn; fruit dark red.

EXORCHORDA—PEARL BUSH.

GRANDIFLORA—From North China; a fine shrub, producing large white flowers in early June, when it's one of the most showy shrubs in existence; a strong grower and hardy.

FORSYTHIA—GOLDEN BELL.

FORTUNEII (Fortune's)—This is one of the most commonly grown, and is a strong shrub covered in early spring with yellow flowers before the leaves appear; should be pruned down close to make a compact head, as its habit is straggling; a native of China and Japan.

SUSPENSA—Weeping; resembles Fortuneii in bloom, but growth is more pendulous.

HALESIA—SNOW DROP OR SILVER BELL.

TETRAPTERA—A very beautiful and graceful shrub with small, bell-shaped flowers in May, followed by four-winged fruit one to two inches long.

HIBISCUS—ALTHEA OR ROSE OF SHARON.

BOULE DE FEU—Fine new variety of vigorous growth; flowers large, double and of beautiful violet red color.

PURPUREA FLORE PLENO (Double Purple)—Very showy kind; flowers double purple; exceptionally fine.

VARIEGATIS FLORE PLENO (Variegated Leaved)—White flowers with purple outside; petals shaded pink, foliage finely variegated. Sometimes called "Painted Lady."

RUBRA PLENO—Double red; clear and very showy.

TOTUS ALBUS—Single; pure white.

HYDRANGEA.

PANICULATA GRANDIFLORA (Large Clustered)—Fine large shrub, bearing snowy panicles of pink and white flowers in the greatest profusion. It is quite hardy, and is altogether a most admirable shrub for planting singly or on a lawn in masses; grown as a bush and half standards.

OTAKSA—Foliage a beautiful deep green color. The plant produces immense trusses of rose-colored flowers in profusion in July; free blooming. For indoor culture in winter.

KERRIA—CORCHORUS.

JAPONICA—A charming green-branched shrub, with bright yellow flowers. The bark is most attractive and bright and lends color to the shrubbery in winter.

LIGUSTRUM (PRIVET).

AMURENSE (Amur or Amoor Privet)—The only privet that has proved hardy at Ottawa. A native of China and Japan, that grows as high as 6 feet.

IBOTA (Chinese Privet)—Flowers large white, produced in heavy clusters; leaves long and shiny; a hardy variety and altogether a desirable variety.

OVALIFOLIUM (California Privet)—Vigorous and hardy, of fine habit and of value for hedges.

VULGARE (Common Privet)—Narrower foliage and darker in color than above; a desirable variety for hedges.

LONICERA (HONEYSUCKLE'S BUSH).

Climbing varieties can be found under heading of Climbing Shrubs.

ALBERTII—Violet flowers, hardy variety; blooms early in June.

FRAGRANTISSIMA (Fragrant)—A spreading shrub with deep green foliage and very fragrant small flowers, which appear before the leaves; foliage almost evergreen; most desirable.

GRANDIFLORA (Pink Flowered Honeysuckle)—A beautiful shrub, very vigorous, and producing large, bright red flowers, striped with white, in June.

MORROWII—Japanese variety, valuable for its red fruit.

TARTARICA (Red Tartarian)—A well-known upright shrub, flowers bright pink, which appear in May.

TARTARICA ALBA (White Tartarian)—Like the preceding, but has creamy white flowers, which are fragrant.



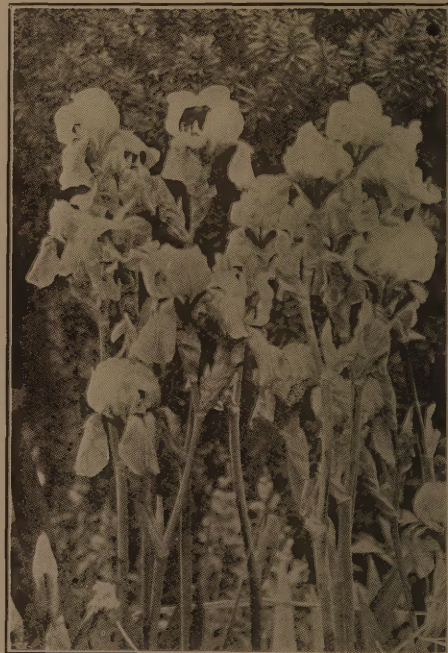
THUYA HOVEYII (Hovey's Golden Cedar). See Page 45.



HYDRANGEA PANICULATA GRANDIFLORA. See page 48.



PRUNUS TRILOBA. See page 49.



GERMAN IRIS. See page 38.

MAHONIA—ASHBERRY (EVERGREEN).

AQUIFOLIA (Holly-leaved Mahonia)—A native specie of medium size, purplish, shining leaves; bright yellow flowers, followed by bright blue berries.

PHILADELPHUS ("SYRINGA" OR MOCK ORANGE).

This beautiful shrub, with its handsome foliage and waxy white flowers, which are produced in great profusion and with strong perfume, deserves a prominent place in the shrubbery. The golden-leaved variety is especially recommended, and at the Helderleigh Nurseries here, fine specimens, standing 8 feet high, may be seen in the early summer—a mass of golden foliage dotted all over with clusters of beautiful bloom.

CORONARIUS (Common Syringa)—A well-known shrub with pure white, highly scented flowers. One of the first to bloom.

FOLIIS AUREIS (Golden Leaved)—A very pretty plant of medium size with golden-yellow foliage. It retains its color the entire season, and is valuable for creating pleasing and striking contrasts with both green and purple-leaved shrubs.

GRANDIFLORUS (Large Flowered)—A conspicuous, showy kind, with large flowers and irregular branches. Will grow to be 10 to 12 feet high if untrimmed.

PHILLYREA.

ANGUSTIFOLIA—A native of Italy and Spain; an evergreen resembling and nearly related to the Privet.

PRUNUS (ALMONDS AND PLUM).

ALMONDS

JAPONICA FLORE ALBA PLENO (White Flag Almond)—Double, white, flowers in May.

JAPONICA FLORE RUBRO PLENO (Red Flag Almond)—Bears beautiful rose-like, flowers in May before the appearance of the leaves.

PLUMS

PISSARDII (Purple-leaved Plum)—Beautiful purple-leaved tree, which retains its distinctive foliage throughout the season. Flowers white and small, but its chief beauty lies in its lustrous crimson and purple leaves.

TRILOBA (Double Flowering Plum)—An interesting addition to hardy shrubs, flowers semi-double, of a delicate pink, upward of an inch in diameter, thickly set on the long slender branches; a native of China; hardy.

PSEUDO-CERASUS—A tree somewhat resembling the Sweet Cherry; very ornamental and quite hardy.

RHAMNUS (BUCKTHORN).

CATHARTICUS—Fine hardy shrub with dark green foliage; white flowers and small black fruit; chiefly planted as a hedge plant.

RHUS (SMOKE OR PURPLE FRINGE).

COTINUS (Purple Fringe Smoke Tree)—A charming shrub which is covered in mid-summer with clusters of curious hairlike flowers.

RIBES—CURRANT.

AUREUM (Yellow Flowered)—Attractive bush with shining green leaves and yellow flowers.

SANGINEUM (Red or Crimson Flowered)—A native variety with red flowers, which are produced in great profusion in early spring.

RHODODENDRON (ROSEBAY).

CATAWBIENSE—Bears clusters of lilac flowers; an evergreen shrub with long, laurel-like leaves.

PONTICUM—Broad, glossy, green leaves, surmounted with clusters of purplish flowers.

SAMBUCUS—ELDER

CANADENSIS AUREA—A handsome bush, with golden foliage, which it retains all summer. Its vigorous growth and freedom from disease make it a desirable and effective shrub.

RACEMOSA PLUMOSA FOLIIS AUREIS (Cut Leaf Golden Elder)—A charming shrub, its chief features being its bright, attractive, delicately cut foliage, which is retained throughout the summer months. This is one of the best cut leaf shrubs in cultivation.

SPIREA—MEADOW SWEET.

The Spireas hereunder listed are choice varieties, and all of the easiest culture. Their blooming extends over a period of quite three months.

ANTHONY WATERER—A fine, new dwarf Spirea, with dark crimson flowers, darker than Spirea Bumalda. One of the finest shrubs of recent years.

ARGUTA—Of dwarfish habit; flowers white; one of the best sorts, and the first to flower in early May, following Thumbergii.

AUREA (Golden Spirea)—A variety with distinct yellow foliage and double white flowers in June; highly ornamental and pleasing in appearance.

BILLARDI—Rose colored spikes, differing altogetehr in appearance from Van Houtte and others of that class; blooms nearly all summer; is hardy and attractive.

BUMALDA—A new Spirea from Japan; dwarfish habit; foliage, narrow; flowers, rose-colored in great profusion during summer and autumn.

CALLOSA ALBA—A white flowering variety, of dwarf, bushy, symmetrical form. Keeps in flower all summer. A valuable small shrub.

CALLOSA ROSEA (Fortune's Rose-Colored Spirea)—Has large panicles of deep rosy blossoms; grows strong and blossoms nearly all summer.

DOUGLASII—Has spikes of beautiful, deep, rose colored flowers in July and August.

PANICULATA ROSEA—A vigorous grower, with cymes of rose-colored flowers. July.

PRUNIFOLIA FLORE PLENO—A beautiful Japanese sort with pure white flowers in May. keeps in flower a long time and justly merits a front place among the Spireas.

RUBERRIMA—Dwarf in habit; narrow foliage and a profusion of rose-colored flowers in midsummer and autumn. Very like Bumalda.

REEVESII—A charming shrub with narrow pointed leaves and large clusters of white flowers that adorn the bush a few days later than Van Houtte; about June 1st.

THUNBERGII—Of dwarf roundish form; slender, graceful, drooping habit; flowers small, white; very early in bloom, being the first of the Spireas; extremely neat and pretty.

VAN HOUTTEI—One of the most charming and beautiful of the Spireas, having pure white flowers in clusters or panicles about an inch in diameter, astonishingly profuse bloom, and plants remarkably vigorous and hardy. Introduced from France, and there is no more desirable flowering shrub in cultivation. Flowers last of May.

SYRINGA—LILAC.

For many years we have been collecting a stock of Lilacs, and after a thorough test in regard to hardiness and vigor we take pleasure in offering the following varieties. We have imported heavily in the past, and the French varieties are all from reliable sources, and they have been grown to perfection on our own grounds before being offered. We especially recommend this list of named varieties, and we can confidently say that in size, form and color there are kinds that will surpass the old favorites which have for so long held a position quite their own with flower lovers.

ABEL CARRIERE—Season early; flowers double, blooms large shouldered, color pink turning to lilac; one of the very best.

ALPHONSE LAVALLE—Double, very large panicle, beautiful blue shaded with violet.

CHARLES X—Season medium, flowers single, bloom of moderate size, color purplish lilac; extremely hardy bush, very robust.

CHARLES JOLY—Season early; flowers double, blooms moderate size, not shouldered, very dark, reddish purple; retaining its magnificent color in a most marked degree to the last. One of the very best of lilacs.

CONGO—Season medium, flowers single, blooms mammoth size; color dark, purplish violet, which it retains for a great length of time. This lilac certainly deserves a place at the very top of the list.

CONQUETE—Season medium, flowers single, bloom magnificently, large, color crimson lilac; very worthy.

DR. LINDLEY—Large, compact panicles, with purplish lilac flowers, dark red in the bud; very fine.

SYRINGA—LILAC—Continued

- DR. MAILLOT**—Season medium; flowers double; color lilac; very fine.
- EMILE LEMOINE**—Double; flowers very large; of fine globular form; rosy lilac; beautiful.
- EMODI**—Season very late; bloom not large; color lilac; chief merit is its lateness, most sorts being gone when it is in bloom.
- FRAU DAMMANN**—Panicles or truss of immense size; flowers medium and pure white. This and the Ludwig Spæth are the two best Lilac of recent introduction.
- JAPONICA**—Species from Japan, becoming a good sized tree; foliage dark green, glossy, leathery, flowers creamy-white, odorless, in great panicles; a month later than other lilacs.
- JOSIKA**—A fine, distinct species of tree-like growth, with dark, shining leaves, and purple flowers in June and immediately after most lilacs have done flowering.
- LA TOUR D'AUVERGNE**—Flowers double; blooms very large, color violet purple.
- LEON SIMON**—Flowers double; blooms very large, violet color; season early; an extremely desirable sort.
- LUDWIG SPÆTH**—Flowers single and very large; panicles very large; color dark purplish red; distinct; superb; mid-season. One of the half dozen best.
- LIGUSTRINA PEKINENSIS (Chinese Lilac)**—Spikes of creamy white flowers; becomes in time large shrub or tree; blooms extremely late, about the same time as Japonica.
- MADAME ABEL CHATENAY**—Flowers double; panicles large; color white; very fine; season medium.
- MARECHAL DE BASSOMPIERRE**—Deep carmine rose; double.
- MADAME CASIMIR PERRIER**—The finest double white lilac, panicles large, creamy white flower, very full.
- MADAME DE SPÆTH**—Flowers double; blooms very large; season medium; color reddish violet; extremely desirable.
- MADAME FRANCISQUE MOREL**—Flowers single, very large; immense panicles; color violet rose; among the very best.
- MADAME LEMOINE**—Flowers double; color white, season medium. One of the best white varieties.
- MARIE LEGRAYE**—Flowers single, heads very large, open; season medium; probably the finest white lilac.
- MICHAEL BUCHNER**—Flowers very double; panicle erect; very compact and large; color pale lilac; season early; bush somewhat dwarfish in habit; very distinct and desirable.
- OBELISQUE**—Season early; flowers double; color white; very good.
- PERSICA (Persian)**—A native of Persia; foliage small as compared to common lilac; flowers bright purple; grows four to six feet high.
- PERSICA ALBA (White Persian)**—A fine sort; white flowers, delicately tinted with rose color.
- PRESIDENT CARNOT**—Double flowers; pretty lilac tint, marked in centre with white.
- PRINCE DE BEAUVEAU**—Violet; double.
- PRESIDENT GREVY**—Flowers very double and very large; panicle magnificent; color a beautiful blue; one of the very finest of all lilacs.
- PRESIDENT VIGER**—Bluish lilac; double; extra fine.
- ROTHOMAGENSIS (Rouen Lilac)**—A distinct hybrid variety, with reddish flowers, panicles of large size and very abundant.
- SOUVENIR DE L. THIBAUT**—A very large flower; very double, reddish purple, a fine variety.
- VILLOSA**—From Japan; a very large branching panicle; flowers light purple in bud, white when open, fragrant; two to three weeks later than most lilacs.
- VULGARIS (Common Lilac)**—Bluish purple flowers; a standard variety.
- VULGARIS ALBA (Common White Lilac)**—White flowered variety.

VIBURNUM—SNOWBALL

- OPULUS STERILIS (Common Snowball or Guelder Rose)**—A well-known favorite shrub, large size, with globular clusters of white flowers; latter end of May.
- PLICATUM (Japan Snowball)**—A rare and exceedingly beautiful species from Japan. Flowers pure white in June. Moderate growth; handsome, plicated foliage. One of the most popular and desirable shrubs grown.

CLIMBING SHRUBS

ACTINIDIA.

ARGUTA—A climbing plant from Japan; flowers white, with purple centre, sometimes covers the whole vine; fruit is round, edible, has a fine flavor; handsome foliage; very strong grower.

AKEBIA.

QUINATA—A singular Japanese climbing shrub, with fine foliage, purple flowers and ornamental fruit.

AMPELOPSIS.

ENGLEMANII—A self clinging variety of Virginia creeper; clings to a brick or stone wall, like Boston Ivy, and is very hardy like Virginia Creeper.

HIRSUTA—This is very much like Englemanni; is very hardy, passing the coldest winters uninjured at Ottawa, clings to any smooth surface like Boston Ivy, and resembles to all appearances Virginia Creeper. Just the thing for northern portions of the country, where Boston Ivy is too tender.

VEITCHII (Japan Ivy, Boston Ivy)—Miniature foliaged creeper, which clings to the smoothest brick walls perfectly without any support whatever; leaves glossy green shaded with purple, hardy, and colors finely in autumn; grows slowly at first, but when once established soon covers the side of house with a perfect overlapping covering of shining foliage.

QUINQUIFOLIA (Virginia Creeper)—A native vine of rapid growth with large luxuriant foliage, which in autumn assumes the most magnificent coloring. The blossoms, which are inconspicuous, are succeeded by handsome dark blue berries.

QUINQUIFOLIA VARIEGATA (Variegated)—A variety similar to above with variegated foliage.

ARISTILOCHIA—BIRTHWORTH.

SIPHO (Dutchman's Pipe)—A native climbing shrub that has very large, thick leaves 10 to 12 inches in diameter, overlapping each other like shingles, when growing upon a trellis. Has yellowish green flowers resembling a pipe in form.

BIGNONIA.

RADICANS (Trumpet Flower)—Splendid climber, vigorous, only moderately hardy, with clusters of large trumpet-shaped flowers in August.

GRANDIFLORA (Large Flowered)—A magnificent vine with large flowers, very showy; tender.

LONICERA—HONEYSUCKLE.

CHINENSIS (Chinese Twining)—This is a hardy, fast growing sort, holding foliage well into the winter; blooms in July and September, and is very fragrant.

HALLEANA (Hall's Japan)—A strong, vigorous, almost evergreen sort, with pure white flowers, changing to yellow. Very fragrant, and covered with flowers from July to December; holds its leaves till January. The best bloomer of all.

BRACHYPODA AUREA RETICULATA (Japan Golden Leaved)—A handsome variety, with the foliage beautifully netted or variegated with yellow; perfectly hardy, not injured here during severe winter 1903-4.

BELGICA (Monthly Fragrant)—Very fragrant red and yellow flowers; blooms all summer; a hardy and well-known sort, very hardy, not injured here during severe winter 1903-4.

SEMPERVIRENS (Scarlet Trumpet)—This is one of the handsomest varieties in cultivation; a strong, rapid grower, and produces scarlet, inodorous flowers all summer.

CANADENSIS (Yellow Trumpet)—Well-known variety, yellow, trumpet-like flowers.

HEDERA—IVY.

HIBERNICA (Irish)—A climbing evergreen that thrives here if planted on the north side of a building. A valuable ornamental climber.

WISTARIA.

SINENSIS (Chinese)—Beautiful climber of rapid growth, producing long, pendulous clusters of pale blue flowers. When well established makes an enormous growth; very hardy, and one of the most superb vines in cultivation; flowers in May and June.

SINENSIS ALBA (Chinese White)—Introduced from China by Mr. Fortune; flowers pure white. This is regarded as one of the finest things introduced from the Celestial Empire.

FRUTESCENS—In habit not as strong as Chinese, flowers pale blue in short clusters.

MAGNIFICA—Flowers in dense drooping racemes, of pale color, vigorous and hardy.

CLEMATIS.

HARDY climbing plants with gorgeous flowers of nearly every shade. Many of the flowers are from 4 to 7 inches in diameter, growing rapidly and profusely. All the varieties delight in deep, rich soil and a sunny exposure, and need supports to which they should be fastened as they advance. They are well adapted to covering unsightly objects, and are used to advantage about rock-work; are most popular ornamental plants; they benefit by having the roots mulched during winter with any coarse material, such as manure, etc.

THE FOLLOWING FLOWER ON SHOOTS OF THE PRESENT SEASON'S GROWTH:

COCCINEA—A handsome, hardy sort, bearing thick, bell-shaped flowers of a bright coral red color; blooms with wonderful profusion from June until frost.

FLAMMULA (European Sweet Clematis)—This has small white fragrant flowers.

HENRYII—Very large, creamy white flowers, one of the best; a perpetual bloomer; not as hardy as Jackmannii.

JACKMANNII—Perhaps the best known of the newer fine perpetual clematis, and should have credit of the great success now attending this family of beautiful climbers. Plant is free in its form of growth and an abundant and successful bloomer, producing flowers until frozen up. Flowers are large, an intense violet purple, remarkable for its velvety richness. Though raised in 1862—since which time many new varieties have been introduced—it has no superior and very few, if any, equals. July to October.

MADAME EDOUARD ANDRE—This is the nearest approach to a bright red clematis, and has been called the Crimson Jackmanni; the vine grows vigorously and blooms profusely; color crimson red and quite distinct from any of the older sorts.

PANICULATA—A native of Japan; this is regarded as one of the most valuable sorts for general culture, for, although the flowers are small, they are pure white and fragrant, vine very vigorous and hardy, and soon covers a porch or verandah, and is one mass of bloom from August until frost comes.

RAMONA—This new clematis originated at Newark, N. J. It is a strong, rampant grower, very much stronger than Jackmanni, often growing ten to twelve feet the first season. It is a true perpetual bloomer, flowers appearing on the last year's growth and on the new shoots, giving an abundance of bloom all through the season. In size the flower surpasses any of the old sorts, often six to seven inches in diameter and of the most perfect shape. Color, deep rich lavender. Distinct from any other sort and very attractive. Perfectly hardy and remarkably vigorous.

VITICELLA RUBRA GRANDIFLORA—This is a crimson clematis with medium sized flowers in profusion. The flowers, which are very abundant, are a dull crimson color, and have green stamens. July to October.

VITICELLA KERMESINA—Flowers of medium size, wine color; very profuse bloomer; a strong, free grower.

DOUBLE SORTS.

DUCHESS OF EDINBURGH—Without doubt the best of pure whites; flowers of medium size; deliciously scented.

JOHN GOULD VEITCH—Sent from Japan in 1862. Flowers very handsome, large, double, and light blue lavender color. June and July.



LILAC, PRESIDENT GREVY—See Page 51.

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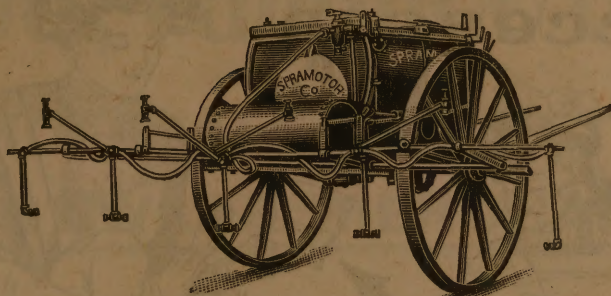
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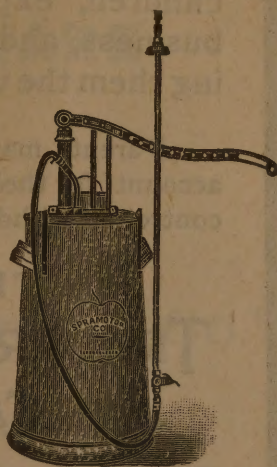


Fig. 7.

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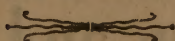
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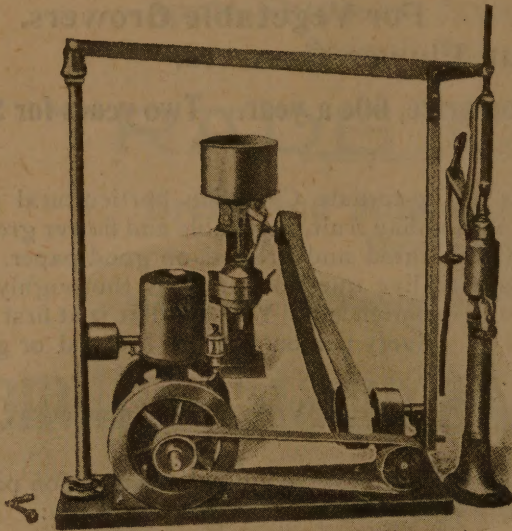
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